



**Westlake**  
Global Compounds™

**PVC COMPOUNDS**  
FOR

**AUTOMOTIVE**  
**BUILDING MATERIALS**  
**CONSUMER GOODS**  
**HEALTHCARE**  
**INDUSTRIAL MATERIALS**  
**PIPE & FITTINGS**  
**WIRE & CABLE**

**VIETNAM**

# Enhancing Your Life Every Day<sup>®</sup>

## Leading the Way

At Westlake Global Compounds, we have a passion for working to meet our customer needs through superior technology, product quality and operating excellence.

Our determination to seek solutions that enhance daily life and provide options to sustainability-minded customers has driven us to be a leading integrated compound company.

Our local teams combine personal attention with the expertise, geographical footprint and financial resources of a global leader – all to benefit you, our customers.

**+50**

YEARS IN BUSINESS

**+10**

FACILITIES/PLANTS GLOBALLY

**+1,000**

EMPLOYEES & GROWING

**+3,000**

PRODUCTS ENGINEERED & COUNTING



## Our Commitment



QUALITY



INNOVATION



CUSTOMER SERVICE



SUSTAINABILITY

## Services Overview



### Research And Development

Our team of experts is here to help you develop new products, integrate new technologies or add properties to an existing product.

### Technical Support

Our experienced support team will assist you with running new products, troubleshooting issues with production and optimizing your product's processes.



### Color Services

Our flexible and rigid color labs can match virtually any color for your project.



### Quality Control

Our dedicated quality teams offer support throughout the compound development and testing process, ensuring the highest level of quality control for your products.



## Our Research & Development Team Can Help With:

### ▶ DEVELOPING NEW PRODUCTS

Whether you're looking for a new product or developing a new application, our team will work with you to produce new compounds from scope definition through regulatory testing and final approval.

### ▶ INTEGRATING NEW TECHNOLOGY

Work toward your operational goals and strategies by integrating new technologies into your business. Our team will work alongside you to integrate new products and troubleshoot along the way.

### ▶ TESTING

During your testing phase, we'll work with you to ensure seamless integration of our new compounds into your products, including lab testing and manufacturing testing.

## Why Westlake Global Compounds?



### SUSTAINABLE SOLUTIONS

We offer products incorporating scrap and recycled materials.



### EXTENSION OF YOUR TEAM

We are dedicated to our partners and are committed to assisting you every step of the way.



### EXPANSIVE TECHNICAL KNOWLEDGE

With over 100 years of combined experience, our expert teams provide deep technical knowledge to deliver the right products for your business.



### GLOBAL CAPACITIES

Spanning North America, Asia and Europe, we have global reach and expertise.

## Certifications

Westlake production processes and products are certified by some of the most respected and well-known certification agencies across the globe, including in Vietnam, NSF C0608368, ISO 9001: 2015, ISO 13485: 2016 and UL E508062-20180831. To learn more, scan the QR code or go to: <https://www.westlakeglobalcompounds.com/certifications>.



## Market Segmentation



### Healthcare

Our products for medical packaging, therapies and treatments will support the future of the biomedical market. Our medical compounds products are used in renal tubing, renal dialysis kits, infusion & perfusion tubing, infusion & perfusion IV accessories, respiratory tubing, respiratory masks, biotech reproduction cannulas, medical containers & bottles, blood storage, and urology catheters.



### Automotive

We produce product for interior, exterior and automotive wire and cable applications that are safe and reliable. This includes slush molding, belt molding, roof ditch molding, encapsulation, fuel line and injected parts.

### Industrial Materials

We offer a broad range of industrial material compounds products through our solutions. We provide solutions for applications such as industrial profiles, industrial molding, industrial sheet & rod, industrial tubing, gaskets & seals, film and turf infill.



### Building Materials

Electrical outlets & conduit products offer various advantages including durability, flame retardancy, electrical insulation, resistance to moisture, chemicals and abrasion, and are lightweight and affordable. We offer these products in a variety of colors and specifications, to meet customization and specific needs.



### Pipe & Fittings

We offer a wide variety of compounds for pipe and fittings products for different applications, such as PVC pipe, PVC fittings, CPVC pipe and CPVC fittings.



### Consumer Goods

We offer a diverse selection of compounds for consumer goods, including footwear, vinyl records, point of purchase, appliances, bottle & closures, garden hose, textile coatings and matting.

### Wire & Cable

We provide an extensive portfolio of compounds for electrification (wire & cable) applications, including building wire, appliance wire, industrial wire, telecommunications wire and automotive wire.



# Market Segments ▶ Automotive | Tube, Flexible/Rigid Extrusion & Injection Molding

We produce product for interior, exterior and automotive wire and cable applications that are safe and reliable. This includes slush molding, belt molding, roof ditch molding, encapsulation, fuel line and injected parts.

| Grade Name                             | Density (g/cm <sup>3</sup> ) (+/- 0.02) | Hardness (+/-3) | Tensile strength (Spa) | Elongation at Break (%) | Heat Stability Congo Red at 200°C (minutes) | Volume Resistivity (Ω.cm) | Applications   | Processing Method |
|--|---|-----------------|------------------------|-------------------------|---|---------------------------|--|-------------------|
| TUBE                                   |   |                 |                        |                         |   |                           |  |                   |
| FTS 709V                               | 1.31                                    | 70A             | ≥ 13                   | ≥ 400                   | ≥ 30  | -                         | PVC compound for general purpose hoses and tubing  | Extrusion         |
| FTS 818V                               | 1.35                                    | 80A             | ≥ 15                   | ≥ 350                   | ≥ 30  | -                         | PVC compound for general purpose hoses and tubing  | Extrusion         |
| FLEXIBLE EXTRUSION & INJECTION MOLDING |   |                 |                        |                         |   |                           |  |                   |
| FEH 901/2V                             | 1.37                                    | 90A             | ≥ 19                   | ≥ 300                   | ≥ 30  | -                         | High temperature PVC compound for general purposes   | Extrusion         |
| FEH 903/2V                             | 1.27                                    | 80A             | ≥ 16                   | ≥ 320                   | ≥ 30  | -                         | High temperature PVC compound for general purposes   | Extrusion         |
| FES 708V                               | 1.19                                    | 73A             | ≥ 8                    | ≥ 200                   | ≥ 25  | -                         | PVC compound for general purposes  | Extrusion         |
| FES 755V                               | 1.38                                    | 75A             | ≥ 12                   | ≥ 200                   | ≥ 30  | -                         | PVC compound for various purposes  | Extrusion         |
| FES 760V                               | 1.38                                    | 80A             | ≥ 16                   | ≥ 200                   | ≥ 30  | -                         | PVC compound for general purposes  | Extrusion         |
| FES 914/1V                             | 1.39                                    | 88A             | ≥ 18                   | ≥ 290                   | ≥ 50  | -                         | PVC compound for extrusion of various profiles   | Extrusion         |
| FMH 604V                               | 1.17                                    | 65A             | ≥ 14                   | ≥ 400                   | ≥ 50  | ≥ E11                     | PVC compound for general parts with good for oil, heat and weather resistance applications | Injection         |
| FMJ 405V                               | 1.18                                    | 40A             | ≥ 6                    | ≥ 350                   | ≥ 30  | -                         | Very soft PVC compound for general purpose   | Injection         |
| FMJ 505V                               | 1.2                                     | 50A             | ≥ 8                    | ≥ 300                   | ≥ 30  | -                         | Very soft PVC compound for general purpose gasket  | Injection         |
| FMJ 605V                               | 1.24                                    | 60A             | ≥ 10                   | ≥ 300                   | ≥ 40  | -                         | Soft PVC compound for general purpose  | Injection         |
| FMJ 705V                               | 1.27                                    | 70A             | ≥ 14                   | ≥ 300                   | ≥ 40  | -                         | Soft PVC compound for general purpose gasket   | Injection         |
| RIGID EXTRUSION & INJECTION MOLDING    |   |                 |                        |                         |   |                           |  |                   |
| RES 422/2V                             | 1.32                                    | 76D             | -                      | -                       | ≥ 30  | -                         | High impact strength PVC compound for general purposes                                     | Extrusion         |



## Applications

- ▶ BELT MOLDING
- ▶ ENCAPSULATION
- ▶ FUEL LINE
- ▶ INJECTED PARTS
- ▶ ROOF DITCH MOLDING
- ▶ SLUSH MOLDING

# Market Segments ▶ Building Materials | Electrical Outlets & Conduit

Electrical outlets & conduit products offer various advantages including durability, flame retardancy, electrical insulation, resistance to moisture, chemicals and abrasion, and are lightweight and affordable. We offer these products in a variety of colors and specifications, to meet customization and specific needs.

| Grade Name                   | Density (g/cc) | Hardness (Shore D or Rockwell) | Tensile Strength (MPa) | Elongation at Break (%) | Heat Stability Congo Red at 200°C (minutes) | Izod Impact at 23°C (J/m) | Charpy Impact at 23°C (KJ/m <sup>2</sup> ) | Standard |       |    |     |                   |
|------------------------------|----------------|--------------------------------|------------------------|-------------------------|---|---------------------------|--|----------|-------|----|-----|-------------------|
|                              |                |                                |                        |                         |   |                           |  | RoHS     | REACH | UL | NSF | Processing Method |
| Electrical Outlets & Conduit |                |                                |                        |                         |   |                           |  |          |       |    |     |                   |
| RPS 480V                     | 1.52           | 80D                            | -                      | -                       | ≥ 30  | -                         | -  |          |       |    |     | Extrusion         |
| RTS 403/1V                   | 1.44           | 73D                            | ≥ 40                   | ≥ 60                    | ≥ 30  | -                         | -  | X        | X     |    |     | Extrusion         |
| RTS 516V                     | 1.41           | -                              | ≥ 50                   | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Extrusion         |
| RTX 501V                     | 1.33           | 79D                            | -                      | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Extrusion         |



## Applications

- ▶ ARCHITECTURAL PRODUCTS
- ▶ FLOORING
- ▶ SIDING
- ▶ ELECTRICAL OUTLETS & CONDUIT
- ▶ INTERIOR ACCESSORIES
- ▶ WALLCOVERING
- ▶ EXTERIOR ACCESSORIES
- ▶ ROOFING
- ▶ WINDOWS & DOORS

# Market Segments ▶ Consumer Goods | Footwear, Hose, Toys, Appliances & Bottles

We offer a diverse selection of compounds for consumer goods, including footwear, vinyl records, point of purchase, appliances, bottle & closures, garden hose, textile coatings and matting.

| Grade Name      | Density (g/cm <sup>3</sup> ) (+/- 0.02) | Hardness (+/-3) | Tensile Strength (Mpa) | Elongation at Break (%) | Heat Stability Congo Red at 200°C (minutes) | Applications   | Processing Method |
|-----------------|---|-----------------|------------------------|-------------------------|---|--|-------------------|
| FOOTWEAR        |   |                 |                        |                         |   |  |                   |
| FSE 550V        | 0.85                                    | 55A             | ≥ 7                    | ≥ 250                   | ≥ 30  | PVC compound for shoe sole   | Injection         |
| FSE 600V        | 1.23                                    | 52A             | ≥ 6                    | ≥ 250                   | ≥ 30  | PVC compound for shoe sole   | Injection         |
| FSE 680/3V      | 1.00                                    | 64A             | ≥ 7                    | ≥ 250                   | ≥ 30  | PVC compound for low temperature and low density midsole shoes                                 | Injection         |
| FSR 540         | 1.16                                    | 54A             | ≥ 6                    | ≥ 300                   | ≥ 30  | PVC compound for low temperature and chemical resistant sole                                   | Injection         |
| FSR 550         | 1.14                                    | 55A             | ≥ 6                    | ≥ 300                   | ≥ 30  | PVC compound for shoe sole   | Injection         |
| FSR 560         | 0.75                                    | 60A             | ≥ 6                    | ≥ 300                   | ≥ 30  | PVC compound for very low density midsole  | Injection         |
| FSR 630         | 1.22                                    | 63A             | ≥ 8                    | ≥ 300                   | ≥ 30  | PVC compound for extrusion lining for shoes (welt)   | Extrusion         |
| FSR 700         | 1.17                                    | 65A             | ≥ 12                   | ≥ 400                   | ≥ 30  | PVC compound for gasket in soles   | Injection         |
| GARDEN HOSE     |   |                 |                        |                         |   |  |                   |
| FTX 803V        | 1.23                                    | 79A             | ≥ 20                   | ≥ 320                   | ≥ 40  | Clear flexible compound for hose and tubing for non fatty foods contact applications           | Extrusion         |
| TOYS            |   |                 |                        |                         |   |  |                   |
| FMJ 902NV       | 1,35                                    | 90A             |                        |                         | ≥ 30  | PVC compound for toys  | Injection         |
| APPLIANCES      |   |                 |                        |                         |   |  |                   |
| FIJ 703V        | 1.42                                    | 74A             | ≥ 10                   | ≥ 280                   | ≥ 50  | PVC compound for fridge gasket   | Extrusion         |
| BOTTLE CLOSURES |   |                 |                        |                         |   |  |                   |
| FMA 602V        | 1.18                                    | 61A             | ≥ 7                    | ≥ 200                   | ≥ 25  | Food approved compound for pry off crown cork seal (beer, carbonated soft drinks, fruit juice) | Injection         |
| FMA 643V        | 1.2                                     | 65A             | ≥ 12,5                 | ≥ 400                   | ≥ 20  | Food approved compound for twist off crown cork seal (beer, carbonated soft drinks)            | Injection         |
| FMB 640V        | 1.19                                    | 64A             | ≥ 13                   | ≥ 400                   | ≥ 30  | PVC compound for liner of crown cork (cap seal) for soft drinks                                | Injection         |



## Applications

- ▶ APPLIANCES
- ▶ BOTTLES & CLOSURES
- ▶ FOOTWEAR
- ▶ FURNITURE
- ▶ GARDEN HOSE
- ▶ MATTING
- ▶ POINT OF PURCHASE
- ▶ TEXTILE COATINGS
- ▶ VINYL RECORDS

# Market Segments ▶ Consumer Goods | Extrusion & Injection Blow Molding, Bottles

We offer a diverse selection of compounds for consumer goods, including footwear, vinyl records, point of purchase, appliances, bottle & closures, garden hose, textile coatings and matting.

| Grade Name                     | Density (g/cm <sup>3</sup> ) (+/- 0.02) | Hardness (Shore D) (+/- 3) | Tensile Strength (MPa) | Elongation at Break (%) | Heat Stability Congo Red at 200°C (minutes) | Izod Impact at 23°C (J/m) | Charpy Impact at 23°C (KJ/m <sup>2</sup> ) | Application   |               |             |                  | Processing Method   |                        |
|--------------------------------|---|----------------------------|------------------------|-------------------------|---|---------------------------|--|---------------|---------------|-------------|------------------|---|------------------------|
|                                |   |                            |                        |                         |   |                           |  | Normal Impact | Medium Impact | High Impact | Very High Impact |   |                        |
| Method                         | ISO 1183-1                              | ISO 868                    | ISO 527                | ISO 527                 | ISO 182-1                                   |                           |  |               |               |             |                  |   |                        |
| EXTRUSION BLOW MOLDING, BOTTLE |   |                            |                        |                         |   |                           |  |               |               |             |                  |   |                        |
| GFA 61EV                       | 1.36                                    | 79D                        | ≥ 43                   | ≥ 140                   | ≥ 30  |                           |  | x             |               |             |                  | Normal impact grade for general purpose packaging with high gloss aspect  | Blow molding           |
| GFB 65EV                       | 1.36                                    | 77D                        | ≥ 41                   | ≥ 180                   | ≥ 30  | 6                         | 6  |               | x             |             |                  | Medium impact grade for general purpose packaging such as candle packaging, toiletry, household products  | Blow molding           |
| GFC 65EV                       | 1.34                                    | 76D                        | ≥ 39                   | ≥ 190                   | ≥ 30  | 11                        | 9  |               |               | x           |                  | High impact grade for general purpose packaging with high gloss aspect  | Blow molding           |
| GFD 64DV                       | 1.34                                    | 76D                        | ≥ 39                   | ≥ 190                   | ≥ 30  | 11                        | 8  |               |               | x           |                  | High impact grade for general purpose packaging GFD with high gloss aspect  | Blow molding           |
| GFE 64DV                       | 1.33                                    | 74D                        | ≥ 39                   | ≥ 200                   | ≥ 30  | 18                        | 18   |               |               |             | x                | Very high impact grade for general purpose packaging with high gloss aspect   | Blow molding           |
| GFE 75AV                       | 1.33                                    | 76D                        | ≥ 39                   | ≥ 210                   | ≥ 30  | 18                        | 18   |               |               |             | x                | Very high impact grade for edible packaging with high oil stress cracking resistance  | Blow molding           |
| GFF 63RV                       | 1.32                                    | 74D                        | ≥ 37                   | ≥ 210                   | ≥ 30  |                           | 30   |               |               |             | x                | Very high impact grade for transparent profiles with high oil stress cracking resistance and UV protection  | Blow molding           |
| GFX 52R5V                      | 1.33                                    | 78D                        | ≥ 34                   | ≥ 185                   | ≥ 30  | 11                        | 9  |               | x             |             |                  | General purpose-ready-to-use compound for bottles and containers from 0.5 L to 1.5 L<br>Applications are various and versatile covering cosmetics, household products, oil, and various liquids | Blow molding           |
| GUF 63V                        | 1.32                                    | 74D                        | ≥ 37                   | ≥ 210                   | ≥ 30  | 95                        | 30   |               |               |             | x                | Very high impact grade for general purpose packaging with high oil stress cracking resistance in accordance with FDA regulation   | Blow molding           |
| RBB 601V                       | 1.35                                    |                            | ≥ 41                   |                         | ≥ 30  | 8                         | ≥ 6  |               |               | x           |                  | PVC compound for general purpose. This grade is suitable for medium impact resistance performance for bottle < 1 Litre  | Blow molding           |
| RBB 1001V                      | 1.33                                    |                            | ≥ 41                   |                         | ≥ 30  | 12.5                      | ≥ 10                                       |               |               |             | x                | High impact resistance PVC Compound for general or food packaging (cosmetics, toiletry, household products, edible oil), bottle < 1 to 2 Litres   | Blow molding           |
| RBB 1201V                      | 1.32                                    |                            | ≥ 34                   |                         | ≥ 30  | 14                        |  |               |               |             | x                | Very high impact grade for bottle up to 3 Litres  | Blow molding           |
| INJECTION BLOW MOLDING, BOTTLE |   |                            |                        |                         |   |                           |  |               |               |             |                  |   |                        |
| GFB 60BV                       | 1.36                                    | 80D                        | ≥ 135                  | ≥ 40                    | ≥ 30  | 2.5                       | 2.5  |               | x             |             |                  | Medium impact grade for parapharmacy packaging with small packaging   | Injection blow molding |



## Applications

- ▶ APPLIANCES
- ▶ FURNITURE
- ▶ POINT OF PURCHASE
- ▶ BOTTLES & CLOSURES
- ▶ GARDEN HOSE
- ▶ TEXTILE COATINGS
- ▶ FOOTWEAR
- ▶ MATTING
- ▶ VINYL RECORDS



# Market Segments ▶ Healthcare | Flexible Extrusion & Rigid Extrusion & Blow Molding

Our products for medical packaging, therapies and treatments will support the future of the biomedical market. Our medical compounds products are used in renal tubing, renal dialysis kits, infusion & perfusion tubing, infusion & perfusion IV accessories, respiratory tubing, respiratory masks, biotech reproduction cannulas, medical containers & bottles, blood storage and urology catheters.

| Grade Name       | Product Description  | Certifications   | Polymer Type | Interior/Exterior | Applications   |
|------------------|--|--|--------------|-------------------|--|
| <b>FLEXIBLE</b>  |  |  |              |                   |  |
| FEA 628          | Flexible, vinyl based extrusion compound, designed for healthcare applications<br><br>Do not intentionally contain phthalates / DOTE relevant to MDR (Medical Device Regulation)             | USP Class VI, RoHS, ISO 10993, SVHC, POP, REACH, FDA 21 CFR part 820 | Flexible     | Interior          | Blood contact, renal treatment, infusion & perfusion, respiratory, catheters |
| FEA 668          |  |  |              |                   |  |
| FEA 692          |  |  |              |                   |  |
| FEA 698          |  |  |              |                   |  |
| FEA 748          |  |  |              |                   |  |
| FEA 752          |  |  |              |                   |  |
| FEA 798          |  |  |              |                   |  |
| FEA 802          |  |  |              |                   |  |
| FEA 898          |  |  |              |                   |  |
| FEA 958          |  |  |              |                   |  |
| FMA 608          | Flexible, vinyl based extrusion compound, designed for healthcare applications<br><br>Do not intentionally contain phthalates / DOTE relevant to MDR (Medical Device Regulation)             | USP Class VI, RoHS, ISO 10993, SVHC, POP, REACH, FDA 21 CFR part 820 | Flexible     | Interior          | Blood contact, renal treatment, infusion & perfusion, respiratory            |
| FMA 668          |  |  |              |                   |  |
| FMA 708          |  |  |              |                   |  |
| FMA 808          |  |  |              |                   |  |
| FMA 822          |  |  |              |                   |  |
| FMA 828          |  |  |              |                   |  |
| FMA 872          |  |  |              |                   |  |
| FMA 878          |  |  |              |                   |  |
| FMA 902          |  |  |              |                   |  |
| FMA 908          |  |  |              |                   |  |
| FMA 918          |  |  |              |                   |  |
| <b>RIGID</b>     |  |  |              |                   |  |
| RET 412 N T01 US | Rigid, vinyl based extrusion and blow molding compound, designed for healthcare applications<br><br>Do not intentionally contain phthalates/DOTE relevant to MDR (Medical Device Regulation) | USP Class VI, RoHS, ISO 10993, SVHC, POP, REACH, FDA 21 CFR part 820 | Rigid        | Interior          | Blood contact, renal treatment, infusion & perfusion, respiratory            |
| RMA 405 N T01    |  |  |              |                   |  |
| RMA 407 V T01 HP |  |  |              |                   |  |



## Applications

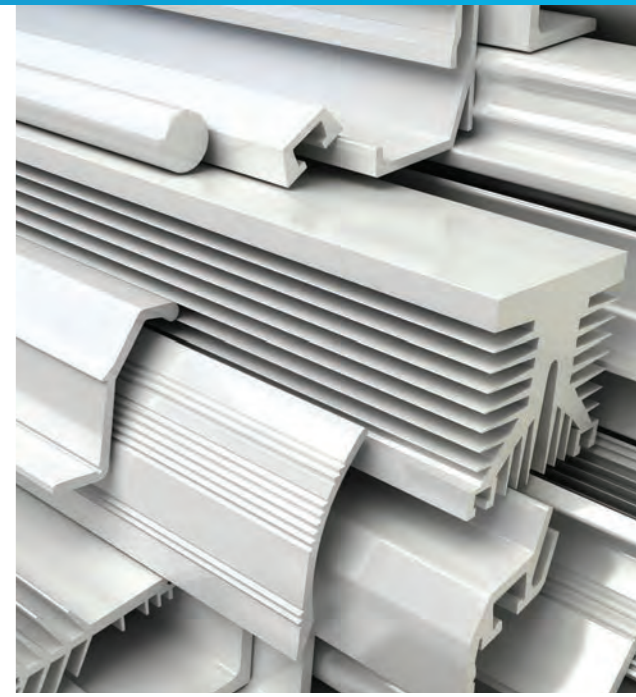
- ▶ BIOTECH REPRODUCTION CANNULAS
- ▶ BLOOD CONTACT
- ▶ CATHETERS
- ▶ INFUSION / PERFUSION
- ▶ RENAL THERAPY
- ▶ RESPIRATORY SOLUTIONS / THERAPIES
- ▶ WOUND DRAINAGE SYSTEM

# Market Segments ▶ Industrial Materials | Industrial Profiles & Film

We offer a broad range of industrial material compounds products through our solutions. We provide solutions for applications such as industrial profiles, industrial molding, industrial sheet & rod, industrial tubing, gaskets & seals, film and turf infill.

| Grade Name          | Density (g/cc) | Hardness (Shore D or Rockwell) | Tensile Strength (MPa) | Elongation at Break (%) | Heat Stability Congo Red at 200°C (minutes) | Izod Impact at 23°C (J/m) | Charpy Impact at 23°C (KJ/m <sup>2</sup> ) | Standard |       |    |     |                   |
|---------------------|----------------|--------------------------------|------------------------|-------------------------|---|---------------------------|--|----------|-------|----|-----|-------------------|
|                     |                |                                |                        |                         |   |                           |  | RoHS     | REACH | UL | NSF | Processing Method |
| INDUSTRIAL PROFILES |                |                                |                        |                         |   |                           |  |          |       |    |     |                   |
| 7140                | 1.45           | 83D                            | ≥ 45                   | -                       | ≥ 30  | 801                       | -  | X        | X     | X  |     | Extrusion         |
| RES 400V            | 1.46           | -                              | -                      | -                       | ≥ 25  | -                         | -  | X        | X     |    |     | Extrusion         |
| RES 422V            | 1.32           | 76D                            | -                      | -                       | ≥ 30  | -                         | 10   | X        | X     |    |     | Extrusion         |
| RPL 304V            | 1.36           | 79D                            | ≥ 40                   | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Extrusion         |
| RPS 400/3V          | 1.35           | 76D                            | -                      | -                       | ≥ 30  | -                         | 10   | X        | X     |    |     | Extrusion         |
| RPS 545V            | 1.45           | -                              | ≥ 40                   | ≥ 90                    | ≥ 30  | -                         | -  | X        | X     |    |     | Extrusion         |
| RPS 549V            | 1.5            | 79D                            | ≥ 42                   | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Extrusion         |
| RPX 211V            | 1.34           | 78D                            | -                      | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Extrusion         |
| RPX 302V            | 1.37           | 78D                            | ≥ 40                   | -                       | ≥ 25  | -                         | -  | X        | X     |    |     | Extrusion         |

| Grade Name                             | Density (g/cm <sup>3</sup> ) (+/- 0.02) | Hardness (Shore D) (+/-3) | Tensile Strength (MPa) | Elongation at Break (%) | Heat Stability Congo Red at 200°C (minutes) | Izod Impact at 23°C (J/m) | Charpy Impact at 23°C (KJ/m <sup>2</sup> ) | Applications  |               |             |                  | Application  | Processing Method |
|--|---|---------------------------|------------------------|-------------------------|---|---------------------------|--|---------------|---------------|-------------|------------------|--|-------------------|
|  |   |                           |                        |                         |   |                           |  | Normal impact | Medium impact | High impact | Very high impact |  |                   |
| Method                                 | ISO 1183-1                              | ISO 868                   | ISO 527                | ISO 527                 | ISO 182-1                                   |                           |  |               |               |             |                  |  |                   |
| EXTRUSION BLOW MOLDING, SHRINKAGE FILM |   |                           |                        |                         |   |                           |  |               |               |             |                  |  |                   |
| REF 63V                                | 1.34                                    | 77D                       | ≥ 45                   | ≥ 155                   | ≥ 30  |                           |  |               |               | x           |                  | High impact grade for transparent shrinkage film packaging with medium vicat point | Film              |
| REF 63NV                               | 1.34                                    | 78D                       | ≥ 45                   | ≥ 150                   | ≥ 30  |                           | 5  |               |               | x           |                  | PVC compound for PVC heat shrinkable film  | Film              |



## Applications

- ▶ GASKETS & SEALS
- ▶ INDUSTRIAL FILM
- ▶ INDUSTRIAL MOLDING
- ▶ INDUSTRIAL PROFILES
- ▶ INDUSTRIAL SHEET & ROD
- ▶ INDUSTRIAL TUBING
- ▶ TURF INFILL

# Market Segments ▶ Pipe & Fittings | Industrial Fittings

We offer a wide variety of compounds for pipe and fittings products for different applications, such as PVC pipe, PVC fittings, CPVC pipe and CPVC fittings.

| Grade Name                 | Density (g/cc) | Hardness (Shore D or Rockwell) | Tensile Strength (MPa) | Elongation at Break (%) | Heat Stability Congo Red at 200°C (minutes) | Izod Impact at 23°C (J/m) | Charpy Impact at 23°C (KJ/m <sup>2</sup> ) | Standard |       |    |     |                   |
|----------------------------|----------------|--------------------------------|------------------------|-------------------------|---|---------------------------|--|----------|-------|----|-----|-------------------|
|                            |                |                                |                        |                         |   |                           |  | RoHS     | REACH | UL | NSF | Processing Method |
| <b>INDUSTRIAL FITTINGS</b> |                |                                |                        |                         |   |                           |  |          |       |    |     |                   |
| 5009 GRAY 73               | 1.40           | 115R                           | ≥ 50                   | -                       | ≥ 30  | 34.7                      | -  | X        | X     | X  | X   | Injection         |
| DL-5009 WHITE 24           | 1.44           | -                              | ≥ 49                   | -                       | ≥ 30  | 58.7                      | -  | X        | X     |    | X   | Injection         |
| HD-5009 WHITE 24           | 1.39           | -                              | ≥ 50                   | -                       | ≥ 30  | 58.7                      | -  | X        | X     |    | X   | Injection         |
| CL-6380J CLEAR             | 1.34           | 105R                           | ≥ 50                   | -                       | ≥ 30  | 53.4                      | -  | X        | X     |    | X   | Injection         |
| HR-5009 WHITE 24           | 1.39           | -                              | ≥ 50                   | -                       | ≥ 30  | 58.7                      | -  | X        | X     |    | X   | Injection         |
| HR-5009 GRAY 73            | 1.39           | -                              | ≥ 50                   | -                       | ≥ 30  | 58.7                      | -  | X        | X     |    | X   | Injection         |
| HF-6597                    | 1.34           | 97R                            | ≥ 39                   | -                       | ≥ 30  | 801                       | -  | X        | X     | X  |     | Injection         |
| SP-7107                    | 1.33           | 100R                           | ≥ 41                   | -                       | ≥ 30  | 801                       | -  | X        | X     | X  |     | Injection         |
| RMJ 780V                   | 1.43           | -                              | ≥ 40                   | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Injection         |
| RMX 501V                   | 1.35           | -                              | ≥ 41                   | ≥ 110                   | ≥ 25  | -                         | -  | X        | X     |    |     | Injection         |
| RRJ 472V                   | 1.45           | -                              | ≥ 40                   | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Injection         |
| RRS 464V                   | 1.44           | -                              | -                      | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Injection         |
| RRS 467V                   | 1.46           | -                              | -                      | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Injection         |
| RRX 406V                   | 1.4            | 78D                            | ≥ 44                   | ≥ 110                   | ≥ 30  | -                         | -  | X        | X     |    |     | Injection         |
| RRX 450V                   | 1.45           | -                              | ≥ 40                   | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Injection         |
| RRX 466V                   | 1.46           | 79D                            | ≥ 42                   | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Injection         |
| RRX 472V                   | 1.42           | 76D                            | -                      | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Injection         |
| RRX 482V                   | 1.4            | 78D                            | -                      | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Injection         |
| RRX 483V                   | 1.36           | 76D                            | -                      | -                       | ≥ 35  | -                         | -  | X        | X     |    |     | Injection         |
| RRX 570V                   | 1.37           | -                              | -                      | -                       | ≥ 30  | -                         | -  | X        | X     |    |     | Injection         |



## Applications

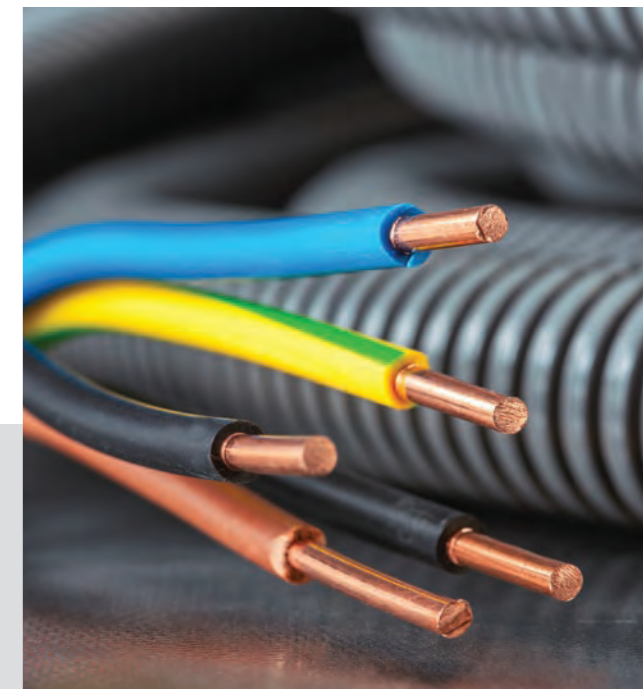
- ▶ CPVC FITTINGS
- ▶ CPVC PIPE
- ▶ PVC FITTINGS
- ▶ PVC PIPE

# Market Segments ▶ Wire & Cable | Flexible & Automotive

We provide an extensive portfolio of compounds for electrification (wire & cable) applications, including building wire, appliance wire, industrial wire, telecommunications wire and automotive wire.

| Grade Name                        | Standard |                         | Applications  | Hardness (+/-3) | Density (g/cm <sup>3</sup> ) (+/- 0,02) | Tensile Strength (Mpa) | Elongation at Break (%) | Heat Stability Congo Red at 200°C (minutes) | Oven Aging Loss of Mass (mg/cm <sup>2</sup> ) |
|-----------------------------------|----------|-------------------------|---|-----------------|---|------------------------|-------------------------|---|---|
| Method                            |          |                         |   | ISO 868         | ISO 1183-1                              | ISO 527                | ISO 527                 | ISO 182-1                                   | IEC 60811-1-2                                 |
| <b>FLEXIBLE INSULATION GRADES</b> |          |                         |   |                 |   |                        |                         |   |   |
| FKS 811V                          | PVC/A    | IEC 60502               | PVC compound for wire and cables insulation, rating 70°C  | 83A             | 1.33                                    | ≥ 13                   | ≥ 280                   | ≥ 90  | -   |
| FKS 812V                          | PVC/B    | IEC 60502               | PVC compound for insulation cables, rating 70°C   | 83A             | 1.33                                    | ≥ 13                   | ≥ 280                   | ≥ 90  | -   |
| FKS 880V                          | PVC/C    | IEC 60502               | PVC compound for wire and cables insulation, rating 70°C  | 88A             | 1.44                                    | ≥ 15                   | ≥ 180                   | ≥ 60  | ≤ 2,0 (7 days @ 80°C)                         |
| FKS 803/5V                        | PVC/D    | IEC 60502               | PVC compound for insulation cables  | 85A             | 1.42                                    | ≥ 10                   | ≥ 200                   | ≥ 45  | ≤ 2,0 (7 days @ 80°C)                         |
| FKS 900/1V                        | TI1      | EN 50363-3              | PVC compound for insulation cables  | 90A             | 1.56                                    | ≥ 14                   | ≥ 230                   | ≥ 45  | -   |
| FKS 806/1V                        | TI2      | EN 50363-3              | PVC compound for insulation cables  | 82A             | 1.46                                    | ≥ 13,5                 | ≥ 350                   | ≥ 70  | -   |
| <b>FLEXIBLE SHEATHING GRADES</b>  |          |                         |   |                 |   |                        |                         |   |   |
| FKS 905/2V                        | ST1      | IEC 60502               | Sheathing cables  | 82A             | 1.45                                    | ≥ 14                   | ≥ 280                   | ≥ 90  | ≤ 1,5 (7 days @ 80°C)                         |
| FKS 905V                          | ST2      | IEC 60502               | Sheathing cables  | 89A             | 1.51                                    | ≥ 14                   | ≥ 250                   | ≥ 100                                       | ≤ 1,5 (7 days @ 80°C)                         |
| FKS 770V                          | ST5      | IEC 60502<br>EN 50363-4 | Wires & cables jacketing, rating 70°C<br>Do not intentionally contain phthalates relevant to RoHS | 77A             | 1.44                                    | ≥ 12,5                 | ≥ 190                   | ≥ 60  | ≤ 2,0 (7 days @ 80°C)                         |
| FKS 806/1V                        | TM1      | EN 50363-4              | Sheathing cables<br>Do not intentionally contain phthalates relevant to RoHS                      | 82A             | 1.46                                    | ≥ 13,5                 | ≥ 350                   | ≥ 70  | -   |
| FKS 902/2V                        | TM2      | EN 50363-4              | Sheathing & insulation cables   | 88A             | 1.48                                    | ≥ 16                   | ≥ 260                   | ≥ 45  | -   |
| FKS 826V                          | Type 6   | BS 6746                 | Sheathing cables  | 82A             | 1.43                                    | ≥ 6                    | ≥ 200                   | ≥ 45  | -   |
| FKS 908/1V                        | Type 9   | BS 6746                 | Sheathing cables<br>Do not intentionally contain phthalates relevant to RoHS                      | 89A             | 1.38                                    | ≥ 19                   | ≥ 320                   | ≥ 150                                       | -   |

| Grade Name        | Applications   | Hardness (+/-3) | Density (g/cm <sup>3</sup> ) (+/- 0.02) | Tensile strength (Mpa) | Elongation at Break (%) | HeatStability Congo Red at 200°C (minutes) | Volume Resistivity (Ω.cm) |
|-------------------|--|-----------------|---|------------------------|-------------------------|--|---------------------------|
| <b>AUTOMOTIVE</b> |  |                 |   |                        |                         |  |                           |
| FEH 800/2V        | PVC compound for wire sheathing electrical application         | 78A             | 1.33                                    | ≥15                    | ≥250                    | ≥100                                       | -                         |
| FKH 808V          | PVC compound for insulation of high temperature cables         | 83A             | 1.27                                    | ≥16                    | ≥320                    | ≥70  | -                         |
| FKH 953/1NV       | PVC compound for insulation of high temperature cables (105°C) | 89A             | 1.44                                    | ≥16                    | ≥270                    | ≥110                                       | ≥E14                      |



## Applications

- ▶ APPLIANCE WIRE
- ▶ INDUSTRIAL WIRE
- ▶ AUTOMOTIVE WIRE
- ▶ TELECOM WIRE
- ▶ BUILDING WIRE

# Westlake Global Compounds™

Local. Global. Westlake.



## ▶ AMERICAS

### USA

Westlake Compounds LLC

Houston, Texas

Tel: + 1 713-960-9111

Novi, Michigan

Tel: + 1 248 308-2158

Aberdeen, Mississippi

Tel: + 1 662-369-8111

Gallman, Mississippi

Tel: + 1 601-892-5612

Madison, Mississippi

Tel: +1 601-206-3200

Prairie, Mississippi

Tel: + 1 662-369-9586

### MEXICO

Westlake Compounds Mexico S. de RL de CV

Matamoros, Mexico

Tel: + 1 248-568-8671

## ▶ EUROPE

### FRANCE

Westlake Compounds Holding, S.A.S.

Reims, France

Tel: + 33 (0) 3 26 85 75 00

### SPAIN

Westlake Compounds Spain S.L.U.

Barcelona, Spain

Tel: + 34 93 574 10 80

### ITALY

Westlake Compounds Italy S.r.l.

Milan, Italy

Tel: + 39 0331 226 111

### GERMANY

Westlake Compounds Germany GmbH

Eilenburg, Germany

Tel: + 49342365230

## ▶ ASIA PACIFIC

### VIETNAM

Westlake Compounds Vietnam Company Limited

Bien Hoa, Vietnam

Tel: + 84 61 3836 339

### JAPAN

Westlake Akishima Co., Ltd.

Saitama, Japan

Tel: + 81 (0) 493 24 2255

Tokyo, Japan

Tel: + 81 (0) 35777 2031

### CHINA

Westlake Compounds (Changshu) Co., Ltd.

Changshu, China

Tel: + 86 139 1366 2512

Jiangsu, China

Tel: + 86 139 1366 2512

Westlake New Materials (Taicang) Co., Ltd.

Taicang, China

Automotive Tel: + 86 139 1366 2512

Non Automotive Tel: + 86 185 0147 6088

CONTACT US ▶ [CompoundsPortal@Westlake.com](mailto:CompoundsPortal@Westlake.com)



Westlake.com



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