



# TPV COMPOUNDS: RTPrene® SERIES

## THERMOPLASTIC ELASTOMERS

### FEATURES

- Durable and tear resistant
- Resistant to heat, UV rays, and chemicals
- Low compression set

### BENEFITS

- Easy to process
- Weight reduction
- Lower system costs vs. thermoset rubber
- Colorable
- Recyclable

To learn more, contact your **local RTP Company representative** today!

### THE ULTIMATE MATERIAL FOR TPV PERFORMANCE

Critical applications demand versatile materials, and RTPrene® Thermoplastic Vulcanizate (TPV) compounds provide the versatility you need! These unique materials behave like thermoset rubbers while providing the ease of processing like thermoplastics. Suitable for a broad range of markets such as automotive, consumer, industrial, and medical, RTPrene® offers superior elasticity and long-term sealing performance. Whether your application needs heat-resistance, soft-touch haptics, a low compression set, or all three, RTPrene® is the ultimate material solution!

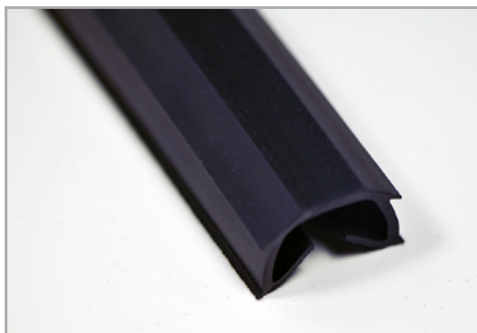
RTPrene® is a fully vulcanized thermoplastic rubber material that is easy to process, lightweight, and resistant to wear and tear. Due to its ability to withstand chemicals, UV rays, and extreme temperatures, RTPrene® is an ideal choice for applications that require excellent performance in harsh environments. Key benefits include:

- Durability, with high resistance to wear and tear
- Flexibility, for applications that require deflection or sealing
- Chemical resistance, to withstand harsh chemicals
- UV resistance, for excellent performance in sunlight
- Easy to process, for design freedom on a wide range of shapes and sizes

Whether your application requires general TPV characteristics, high performance, weatherability, and/or chemical resistance, we have a material solution that's right for your product. We listen to your performance expectations and requirements, formulate a viable compound, and send the material through rigorous quality control testing to produce a sample. With your approval, we scale up production quickly, ship your order, and provide on-site technical assistance if needed. Our goal: to partner with you every step of the way, from design concept through production, to ensure that your application is a success!

### APPLICATIONS

Suitable for a broad range of markets and applications such as automotive, industrial, and consumer goods, RTPrene® is the ultimate material solution for seals, gaskets, hoses, strut boots, handles, wire and cable, and other applications requiring performance in harsh environments.



**AUTOMOTIVE APPLICATIONS:**  
Weather seals, plugs, grommets, suspension bellows, grill seals, EV charging ports or stations



**INDUSTRIAL APPLICATIONS:**  
Hoses, seals, gaskets, bumpers, window profiles, wire and cable



**CONSUMER APPLICATIONS:**  
Appliance seals, sporting goods, toys, tools, personal care products, electronics cases



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# TPV COMPOUNDS: RTPrene® SERIES

## PROPERTY COMPARISON

We've formulated several types of RTPrene® to better meet your desired performance requirements.

| RTPrene® G Series<br>General Purpose TPV,<br>Available in Natural or Black | Density<br>(g/cm <sup>3</sup> ) | Tensile<br>Strength<br>at break<br>(MPa) | Tensile<br>Elongation<br>at break | Compression Set<br>(22h@70 °C) | Shore Hardness<br>(15s delay) |
|--|---------------------------------|--|-----------------------------------|--------------------------------|-------------------------------|
| RTPrene® G 35  | 0.93                            | 2.90                                     | 330%                              | 17%**                          | 38A                           |
| RTPrene® G 45  | 0.96                            | 3.50                                     | 340%                              | 19%**                          | 49A                           |
| RTPrene® G 55  | 0.97                            | 5.01                                     | 420%                              | 23%                            | 60A                           |
| RTPrene® G 64  | 0.97                            | 6.47                                     | 450%                              | 25%                            | 69A                           |
| RTPrene® G 73  | 0.97                            | 7.98                                     | 480%                              | 27%                            | 78A                           |
| RTPrene® G 80  | 0.96                            | 10.4                                     | 530%                              | 36%                            | 87A                           |
| RTPrene® G 87  | 0.95                            | 15.6                                     | 600%                              | 37%                            | 94A                           |
| RTPrene® G 40D   | 0.95                            | 20.7                                     | 610%                              | 54%                            | 41D                           |
| RTPrene® G 50D   | 0.95                            | 12.0*                                    | 31%*                              | 59%                            | 51D                           |

\*reported at yield

\*\* 22h@23 °C

| RTPrene® M Series<br>High Performance Extrusion TPV,<br>Available in Black | Density<br>(g/cm <sup>3</sup> ) | Tensile<br>Strength<br>at break<br>(MPa) | Tensile<br>Elongation<br>at break | Compression Set<br>(22h@70 °C) | Hardness<br>(15s delay) |
|--|---------------------------------|--|-----------------------------------|--------------------------------|-------------------------|
| RTPrene® M 55  | 0.92                            | 4.39                                     | 470%                              | 31%                            | 56A                     |
| RTPrene® M 64  | 0.92                            | 4.65                                     | 420%                              | 34%                            | 67A                     |
| RTPrene® M 73  | 0.93                            | 6.59                                     | 440%                              | 42%                            | 80A                     |

| RTPrene® K Series<br>UV Resistant TPV,<br>Available in Black | Density<br>(g/cm <sup>3</sup> ) | Tensile<br>Strength<br>at break<br>(MPa) | Tensile<br>Elongation<br>at break | Compression Set<br>(22h@70 °C) | Hardness<br>(15s delay) |
|--|---------------------------------|--|-----------------------------------|--------------------------------|-------------------------|
| RTPrene® K 64  | 0.98                            | 7.03                                     | 440%                              | 31%                            | 69A                     |
| RTPrene® K 73  | 0.97                            | 8.69                                     | 460%                              | 34%                            | 78A                     |
| RTPrene® K 80  | 0.97                            | 11.0                                     | 560%                              | 25%                            | 85A                     |
| RTPrene® K 87  | 0.97                            | 15.2                                     | 600%                              | 28%**                          | 93A                     |

\*\* 22h@23 °C

For more information, contact your local RTP Company sales engineer, or visit <https://www.rtpcompany.com/products/elastomer/>

**RTP COMPANY: YOUR GLOBAL COMPOUNDER OF CUSTOM ENGINEERED THERMOPLASTICS**



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