

PrimoPrene 40D-1000

Thermoplastic Vulcanizate

KMI Group Inc.

Message:

Attributes:
PrimoPrene TPV is a thermoplastic elastomer containing fully vulcanized EPDM rubber.
It is designed for applications requiring long term sealing performance even at elevated temperatures up to 135°C (275F).
Can be processed using conventional thermoplastic processing equipment.
Suitable for injection molding, blow molding, profile and sheet extrusion applications.
PrimoPrene TPV is supplied in weatherable (UV stabilized) black.

Applications:
PrimoPrene is a cost effective solution for replacing Santoprene rubber, styrenic-based TPEs, and thermoset rubbers such as EPDM, and Polychloroprene.
It is an excellent choice for applications requiring flexibility in the following markets: automotive parts, appliance, business machines, construction, consumer products, and electronics.

| General Information | | | |
|---------------------|------------------------------------|-------------------|-------------|
| Additive | Rubber 2 | | |
| | UV Stabilizer | | |
| Features | Good Colorability | | |
| | Good Flexibility | | |
| | Good Heat Seal | | |
| | Good UV Resistance | | |
| | Soft | | |
| Uses | Appliances | | |
| | Automotive Applications | | |
| | Business Equipment | | |
| | Construction Applications | | |
| | Consumer Applications | | |
| | Electrical/Electronic Applications | | |
| | Flexible Grips | | |
| | Handles | | |
| Appearance | Black | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| | Profile Extrusion | | |
| | Sheet Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.940 | g/cm ³ | ASTM D792 |

| Melt Mass-Flow Rate (MFR) ¹ (230°C/10.0 kg) | 8.0 to 15 | g/10 min | ASTM D1238 |
|--|---------------------------|----------|-------------|
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore D, 5 sec | 40 | | |
| Shore D, 15 sec | 38 | | |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ² (100% Strain, 23°C) | 9.00 | MPa | ASTM D412 |
| Tensile Strength ³ (Yield, 23°C) | 17.0 | MPa | ASTM D412 |
| Tensile Elongation ⁴ (Break, 23°C) | 650 | % | ASTM D412 |
| Tear Strength ⁵ (23°C) | 80.0 | kN/m | ASTM D624 |
| Compression Set | | | ASTM D395 |
| 70°C, 22 hr | 59 | % | |
| 125°C, 70 hr | 72 | % | |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | -30.0 | °C | ASTM D746 |
| Melting Temperature | 159 | °C | |
| Additional Information | Nominal Value | | Test Method |
| Ozone Resistance ⁶ | Excellent | | ASTM D1149 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 82.2 | °C | |
| Drying Time | 3.0 | hr | |
| Extrusion | Nominal Value | Unit | |
| Drying Temperature | 65.6 | °C | |
| Drying Time | 3.0 | hr | |
| NOTE | | | |
| 1. | Procedure A | | |
| 2. | 500 mm/min | | |
| 3. | 500 mm/min | | |
| 4. | 500 mm/min | | |
| 5. | Die C, 500 mm/min | | |
| 6. | 500 hr, 100 pphm O3 conc. | | |

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