

PrimoPrene 75A-4000

Thermoplastic Vulcanizate Alloy

KMI Group Inc.

Message:

Attributes:

PrimoPrene is a thermoplastic vulcanizate containing EPDM and PP.
It is designed for applications requiring long term sealing performance even at elevated temperatures up to 135°C (275F).
Soft-touch feel for grips and handles used in automotive and consumer goods.
Can be processed using conventional thermoplastic processing equipment.
PrimoPrene 4000 series are naturally colorless: making them ideal for vibrant color applications.
Suitable for injection molding, profile extrusion and sheet applications.
PrimoPrene 75A-4000 is UV stabilized: meeting the most stringent automotive requirements.

Applications:

PrimoPrene is a cost effective solution for replacing Santoprene rubber, styrenic-based TPEs, flexible PVC, 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 | | | |
|------------------------|---------------|------------------------------------|-------------|
| Filler / Reinforcement | | Polypropylene | |
| Additive | | Rubber | |
| | | 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 | | Colorless | |
| Processing Method | | Extrusion | |
| | | Injection Molding | |
| | | Profile Extrusion | |
| | | Sheet Extrusion | |
| Physical | Nominal Value | Unit | Test Method |

| Specific Gravity | 0.950 | g/cm ³ | ASTM D792 |
|--|---------------------------|-------------------|-------------|
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore A, 5 sec | 75 | | |
| Shore A, 15 sec | 73 | | |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ¹ (100% Strain, 23°C) | 5.00 | MPa | ASTM D412 |
| Tensile Strength ² (Yield, 23°C) | 6.00 | MPa | ASTM D412 |
| Tensile Elongation ³ (Break, 23°C) | 520 | % | ASTM D412 |
| Tear Strength ⁴ (23°C) | 40.0 | kN/m | ASTM D624 |
| Compression Set | | | ASTM D395 |
| 70°C, 22 hr | 30 | % | |
| 125°C, 70 hr | 52 | % | |
| Aging | Nominal Value | Unit | Test Method |
| Change in Tensile Strength in Air (150°C, 168 hr) | -11 | % | ASTM D573 |
| Change in Ultimate Elongation in Air (150°C, 168 hr) | -6.0 | % | ASTM D573 |
| Change in Durometer Hardness in Air (Shore A, 150°C, 168 hr) | 4.0 | | ASTM D573 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | -70.0 | °C | ASTM D746 |
| Melting Temperature | 159 | °C | |
| Additional Information | Nominal Value | | Test Method |
| Ozone Resistance ⁵ | Excellent | | ASTM D1149 |
| NOTE | | | |
| 1. | 500 mm/min | | |
| 2. | 500 mm/min | | |
| 3. | 500 mm/min | | |
| 4. | Die C, 500 mm/min | | |
| 5. | 500 hr, 100 pphm O3 conc. | | |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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