# PrimoPrene 90A-1000

Thermoplastic Vulcanizate

KMI Group Inc.

## Message:

Attributes:
PrimoPrene TPV is a thermoplastic elastomer containing fully vulcanized EPDM rubber.
It is ideal solution 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.
There is no need for costly and energy guzzlind down stream equipment for curing.
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 | Blow Molding |
| | Extrusion |
| | Injection Molding |
| | Profile Extrusion |
| | Sheet Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Specific Gravity | 0.960 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) [1] (230°C/10.0 kg) | 10 to 18 | g/10 min | ASTM D1238 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness | | | ASTM D2240 |
| Shore A, 5 sec | 90 | | |
| Shore A, 15 sec | 87 | | |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress [2] (100% Strain, 23°C) | 6.30 | MPa | ASTM D412 |
| Tensile Strength [3] (Yield, 23°C) | 16.9 | MPa | ASTM D412 |
| Tensile Elongation [4] (Break, 23°C) | 520 | % | ASTM D412 |
| Tear Strength [5] (23°C) | 65.0 | kN/m | ASTM D624 |
| Compression Set | | | ASTM D395 |
| 70°C, 22 hr | 41 | % | |
| 125°C, 70 hr | 72 | % | |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Brittleness Temperature | -50.0 | °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. | | |



Recommended distributors for this material

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