Elastoprene 65A-1000

Thermoplastic Vulcanizate **KMI Group, Inc.**

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Technical Data

Product Description

Attributes:

- Elastoprene 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).
- Can be processed using conventional thermoplastic processing equipment. Suitable for injection molding, blow molding, profile and sheet extrusion applications.
- Elastoprene TPV is supplied in weatherable (UV stabilized) black.
- Elastoprene TPV is in compliance with FDA, CFR title 21 Section 177.2600 "Rubber articles intended for repeated use"; and 177.1210 "Closures with sealing Gaskets for food Containers".

Applications:

Elastoprene 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 | | | |
|-------------------|--|--|--|
| Material Status | Commercial: Active | | |
| Availability | Africa & Middle East Asia Pacific | EuropeLatin America | North America |
| Additive | Rubber ¹ | UV Stabilizer | |
| Features | Good Colorability Good Flexibility | Good Heat SealSoft | UV Resistant |
| Uses | Appliances Automotive Applications Business Equipment | Construction Applications Consumer Applications Electrical/Electronic Applications | Flexible GripsHandles |
| Agency Ratings | • FDA 21 CFR 177.1210 | • FDA 21 CFR 177.2600 | |
| Appearance | • Black | | |
| Processing Method | ExtrusionInjection Molding | Profile Extrusion Sheet Extrusion | |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|-------------------------|-------------|
| Density / Specific Gravity | 0.972 | 0.970 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) ³ (230°C/10.0 kg) | 8.0 to 15 g/10 min | 8.0 to 15 g/10 min | ASTM D1238 |
| Elastomers | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Stress ⁴ (100% Strain, 73°F (23°C)) | 421 psi | 2.90 MPa | ASTM D412 |
| Tensile Strength ⁴ (Yield, 73°F (23°C)) | 1160 psi | 8.00 MPa | ASTM D412 |
| Tensile Elongation ⁴ (Break, 73°F (23°C)) | 550 % | 550 % | ASTM D412 |
| Tear Strength ⁵ (73°F (23°C)) | 211 lbf/in | 37.0 kN/m | ASTM D624 |
| Compression Set | | | ASTM D395 |
| 158°F (70°C), 22 hr | 35 % | 35 % | |
| 257°F (125°C), 70 hr | 51 % | 51 % | |
| Hardness | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore A, 5 sec | 68 | 68 | |
| Shore A, 15 sec | 65 | 65 | |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Brittleness Temperature | -85.0 °F | -65.0 °C | ASTM D746 |
| Melting Temperature | 317 °F | 159 °C | |
| Additional Information | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Ozone Resistance ⁶ | Excellent | Excellent | ASTM D1149 |



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| Injection | Nominal Value (English) | Nominal Value (SI) | |
|--------------------|-------------------------|--------------------|--|
| Drying Temperature | 180 °F | 82 °C | |
| Drying Time | 3.0 hr | 3.0 hr | |
| Extrusion | Nominal Value (English) | Nominal Value (SI) | |
| Drying Temperature | 150 °F | 66 °C | |
| Drying Time | 3.0 hr | 3.0 hr | |

Notes

¹ EPDM

² Typical properties: these are not to be construed as specifications.

³ Procedure A

⁴ 20 in/min (500 mm/min)

⁵ Die C, 20 in/min (500 mm/min)

⁶ 500 hr, 100 pphm O3 conc.



2 of 3

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Where to Buy

Supplier

KMI Group, Inc. Kenton, Kenton USA Telephone: 731-749-8700 Web: http://www.kmigroup.com

Distributor

Please contact the supplier to find a distributor for Elastoprene 65A-1000



3 of 3

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