



CHEMPLAX LLC

A KMI Group Company

Technical Data Sheet

Elastoprene 65A-1000

Thermoplastic Vulcanizate (TPV)

Product Description

Attributes:

- Elastoprene TPV is a thermoplastic elastomer containing fully vulcanized EPDM rubber.
- It is the ideal solution for applications requiring long-term sealing performance even at elevated temperatures up to 135°C (275°F).
- It 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, appliances, business machines, construction, consumer products, and electronics.

Revision

Revision Date: 2/21/2024

| Properties | Method | Value |
|-------------------------------|------------|-------------------------|
| Density/Specific Gravity | ASTM D792 | 0.972 g/cm ³ |
| Melt Flow Rate (190°C/2.16kg) | ASTM D1238 | 8.0-15 g/10min |
| Tensile Properties | ISO 37 | |
| Tensile Stress (300% strain) | | 2.90 MPa |
| Tensile Strength (Yield) | | 8.0 MPa |
| Tensile Elongation (Break) | | 550% |
| Durometer (Shore A) | ASTM 2240 | 66.5 |

Additional Notes

Processing Parameters: EcoPrene material can be processed using conventional thermoplastic processing equipment. Extrusion processing recommendation L/D ratio of 24 or more, and a metering type screw with compression ratio of 3:4.

For additional inquiries, please contact: csr.supplychain@kmigroup.com

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