

Trexprene® A65SCI

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A65SCI is a heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV) which contains a lubricant/slip package for lower co-efficient of friction and anti-wear properties versus normal TPV's. This compound is formulated in pre-color form primarily for under-hood or interior applications. This material can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques.

| General Information | |
|---------------------|---|
| Additive | Heat Stabilizer Lubricant Slip |
| Features | Good Wear Resistance Heat Stabilized Low Friction Lubricated Slip |
| Uses | Automotive Interior Parts Automotive Under the Hood |
| Appearance | Unspecified Color |
| Forms | Pellets |
| Processing Method | Blow Molding Extrusion Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|----------------------------------|----------------|-------------------|-------------|
| Density | 0.890 to 0.950 | g/cm ³ | ISO 1183 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A, 15 sec) | 60 to 68 | | ISO 868 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ¹ | | | ISO 37 |
| Across Flow : 100% Strain | 2.30 | MPa | |
| Flow : 100% Strain | 3.90 | MPa | |
| Tensile Stress ² | | | ISO 37 |
| Across Flow : Yield | 5.70 | MPa | |
| Flow : Yield | 4.50 | MPa | |
| Tensile Elongation ³ | | | ISO 37 |

| | | | |
|---|--|--------|-------------|
| Across Flow : Break | 720 | % | |
| Flow : Break | 250 | % | |
| Tear Strength ⁴ | | | ISO 34-1 |
| Across Flow | 27 | kN/m | |
| Flow | 24 | kN/m | |
| Compression Set | | | |
| 125°C, 70 hr | 41 | % | ASTM D395B |
| 125°C, 70 hr ⁵ | 41 | % | ISO 815 |
| Aging | Nominal Value | Unit | Test Method |
| Change in Tensile Strength in Air (135°C, 1000 hr) | 5.0 | % | ISO 188 |
| Change in Tensile Strain at Break in Air (135°C, 1000 hr) | -2.0 | % | ISO 188 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | | | |
| -- | -56.0 | °C | ASTM D746 |
| Type B | -56.0 | °C | ISO 812 |
| Flammability | Nominal Value | Unit | Test Method |
| Burning Rate | 25 | mm/min | ISO 3795 |
| Additional Information | Nominal Value | | Test Method |
| Color Fastness - to Light ⁶ | Delta E < 3.0 | | |
| Ozone Resistance ⁷ (40°C) | 0 Rating | | ISO 1431-1 |
| NOTE | | | |
| 1. | Type 1, 500 mm/min | | |
| 2. | Type 1, 500 mm/min | | |
| 3. | Type 1, 500 mm/min | | |
| 4. | Method Ba, Angle (Unnicked), 500 mm/min | | |
| 5. | Type A | | |
| 6. | Filtered Xenon per SAE J2412, 1240.8 kJ/m ² | | |
| 7. | 100 pphm, Method A | | |

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