

Elastron® V V251.A77.B

Thermoplastic Vulcanizate

Elastron USA, Inc.

Message:

A soft, black TPV (EPDM /PP) material belongs to thermoplastic elastomer (TPE) family with superior UV resistance and excellent compression set. This product is specially designed for weatherseal applications.

Bondable to: PP, EVA, PE

| General Information | | | |
|------------------------------|--------------------|-------------------|-------------|
| Features | Bondability | | |
| | Good UV Resistance | | |
| | Soft | | |
| Uses | Seals | | |
| RoHS Compliance | RoHS Compliant | | |
| Appearance | Black | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.950 | g/cm ³ | ASTM D792 |
| Molding Shrinkage | | | ASTM D955 |
| Flow | 2.3 | % | |
| Across Flow | 1.6 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 77 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ASTM D412 |
| 100% Strain | 3.60 | MPa | |
| 300% Strain | 4.90 | MPa | |
| Tensile Strength (Break) | 8.50 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 550 | % | ASTM D412 |
| Tear Strength | 43.0 | kN/m | ASTM D624 |
| Compression Set | | | ASTM D395 |
| 23°C, 22 hr | 21 | % | |
| 70°C, 22 hr | 39 | % | |
| 100°C, 22 hr | 46 | % | |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | HB | | UL 94 |
| Additional Information | Nominal Value | | Test Method |

| Ozone Resistance - Stressed | No Cracks | ASTM D518 |
|-----------------------------|---------------|-----------|
| Injection | Nominal Value | Unit |
| Drying Temperature | 90.0 | °C |
| Drying Time | 2.0 | hr |
| Suggested Max Regrind | 20 | % |
| Rear Temperature | 155 to 175 | °C |
| Middle Temperature | 165 to 185 | °C |
| Front Temperature | 175 to 195 | °C |
| Nozzle Temperature | 195 to 225 | °C |
| Mold Temperature | 25.0 to 50.0 | °C |
| Extrusion | Nominal Value | Unit |
| Drying Temperature | 90.0 | °C |
| Drying Time | 2.0 | hr |
| Cylinder Zone 1 Temp. | 160 to 180 | °C |
| Cylinder Zone 2 Temp. | 165 to 185 | °C |
| Cylinder Zone 3 Temp. | 170 to 190 | °C |
| Cylinder Zone 4 Temp. | 185 to 205 | °C |
| Cylinder Zone 5 Temp. | 190 to 220 | °C |
| Die Temperature | 195 to 225 | °C |

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