

Elastron® V V101.A55.N

Thermoplastic Vulcanizate

Elastron USA, Inc.

Message:

A soft, colorable thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer family that offers good physical properties and chemical resistance.

Bondable to: PP, EVA, PE

| General Information | | | |
|------------------------------|--------------------------|-------------------|-------------|
| Features | Bondability | | |
| | Good Chemical Resistance | | |
| | Good Colorability | | |
| | Soft | | |
| RoHS Compliance | RoHS Compliant | | |
| Appearance | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.970 | g/cm ³ | ASTM D792 |
| Molding Shrinkage | | | ASTM D955 |
| Flow | 3.0 | % | |
| Across Flow | 1.2 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 55 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ASTM D412 |
| 100% Strain | 1.40 | MPa | |
| 300% Strain | 2.80 | MPa | |
| Tensile Strength (Break) | 5.00 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 600 | % | ASTM D412 |
| Tear Strength | 30.0 | kN/m | ASTM D624 |
| Compression Set | | | ASTM D395 |
| 23°C, 22 hr | 17 | % | |
| 70°C, 22 hr | 32 | % | |
| 100°C, 22 hr | 45 | % | |
| 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 | 170 to 190 | °C |
| Nozzle Temperature | 180 to 210 | °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. | 155 to 165 | °C |
| Cylinder Zone 2 Temp. | 160 to 180 | °C |
| Cylinder Zone 3 Temp. | 165 to 185 | °C |
| Cylinder Zone 4 Temp. | 170 to 190 | °C |
| Cylinder Zone 5 Temp. | 180 to 210 | °C |
| Die Temperature | 185 to 215 | °C |

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