

RTP 1200-55D TFE 15

Thermoplastic Polyurethane Elastomer (Polyester)

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.
-Preliminary Product Data per RTP Co.-

| General Information | | | |
|--|----------------------|-------------------|-------------|
| Additive | PTFE lubricant (15%) | | |
| Features | Lubrication | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.30 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.80 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.20 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 55 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 207 | MPa | ASTM D638 |
| Tensile Strength | 27.6 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 350 | % | ASTM D638 |
| Flexural Modulus | 103 | MPa | ASTM D790 |
| Flexural Strength | 31.0 | MPa | ASTM D790 |
| Coefficient of Friction (With Metal-Dynamic) | 0.32 | | ASTM D1894 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | No Break | | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | No Break | | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 87.8 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 54.4 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | HB | | UL 94 |

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 12mil/in.Wear Factor, K, ASTM D-3702: 75E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.32The wear factor and coefficient of friction were both tested on a Falex Model No.6 Wear Testing Machine at 50 FPM, 2000 PV, against C1018 steel of hardness 15-25 Rockwell C, 14-17 micro smoothness.

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature | 182 - 210 | °C |
| Middle Temperature | 182 - 210 | °C |
| Front Temperature | 182 - 210 | °C |
| Mold Temperature | 15.6 - 65.6 | °C |
| Injection Pressure | 68.9 - 103 | MPa |

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