

Technical Data Sheet

Softflex 0954 3734 Purple



Thermoplastic Elastomer

Product Description

Softflex 0954 3734 Purple is a Thermoplastic Elastomer material and is typically used in Coating, Injection Molding applications.

Processing Method Coating; Injection Molding

Forms Pellets

| Typical Properties | Nominal Value | Units | Test Method |
|--|---------------|-------------------|-------------|
| Physical | | | |
| Melt Flow Rate | | | |
| (200 °C/5.0 kg, Procedure A) | 21 | g/10 min | ASTM D1238 |
| (235 °C/1.0 kg, Procedure A) | 19 | g/10 min | ASTM D1238 |
| Density - Specific Gravity | 1.09 | g/cm ³ | ASTM D792 |
| Mechanical | | | |
| Tensile Stress at 100% | 3.27 | MPa | ASTM D412 |
| Tensile Stress at 300% | 4.9 | MPa | ASTM D412 |
| Tensile Stress at 50% | 2.57 | MPa | ASTM D412 |
| Tensile Set, (100%) | 7 | % | ASTM D412 |
| Tensile Strength at Yield, (510 mm/min) | 9.54 | MPa | ASTM D412 |
| Tensile Elongation at Break | 810 | % | ASTM D412 |
| Tear Strength | 45.5 | kN/m | ASTM D624 |
| Impact | | | |
| Gardner Impact, (-30 °C) | >36.2 | J | ASTM D5420 |
| Hardness | | | |
| Durometer Hardness | | | |
| (Shore A) | 68 to 78 | | ASTM D2240 |
| (Shore A, 10 sec) | 64 to 74 | | ASTM D2240 |
| Additional Information | | | |
| Compression Set | | | |
| (100 °C, 22 hr, Method B) | 96 | % | ASTM D395 |
| (23 °C, 22 hr, Method B) | 24 | % | ASTM D395 |
| (70 °C, 22 hr, Method B) | 78 | % | ASTM D395 |
| Taber Abrasion Resistance, (H-22 Wheel, 1000 g, 1000 Cycles) | 238 | mg | ASTM D3389 |

| Injection Parameters | Nominal Value | Units |
|-----------------------------|----------------------|--------------|
| Drying Time | 4.0 to 6.0 | hr |
| Drying Temperature | 54 to 60 | °C |
| Nozzle Temperature | 199 to 216 | °C |
| Screw Speed | 20 to 40 | rpm |
| Processing (Melt) Temp | 193 to 210 | °C |
| Front Temperature | 210 to 221 | °C |
| Holding Pressure | 27.6 to 31.0 | MPa |
| Suggested Shot Size | 40 to 80 | % |
| Middle Temperature | 171 to 193 | °C |
| Rear Temperature | 160 to 182 | °C |
| Back Pressure | 0.517 to 1.03 | MPa |
| Mold Temperature | 27 to 49 | °C |
| Injection Pressure | 34.5 to 41.4 | MPa |