

Technical Data Sheet

Softflex 0150

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics

Product Description

Softflex 0150 is suitable for overmolding polypropylene and polyethylene.

General

| | | |
|-------------------|------------------------|------------------------|
| Agency Ratings | • EC 1907/2006 (REACH) | • EU 2002/96/EC (WEEE) |
| RoHS Compliance | • RoHS Compliant | |
| Forms | • Pellets | |
| Processing Method | • Coating | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|-------------------------|-------------|
| Density / Specific Gravity | 0.890 | 0.888 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (235°C/1.0 Kg) | 420 g/10 min | 420 g/10 min | ASTM D1238 |
| Elastomers | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield) | 435 psi | 3.00 MPa | ASTM D412 |
| Tensile Elongation (Break) | 800 % | 800 % | ASTM D412 |
| Tear Strength | 50.0 lbf/in | 8.76 kN/m | ASTM D624 |
| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Gardner Impact (-22°F (-30°C)) | > 320 in·lb | > 36.2 J | ASTM D5420 |
| Hardness | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Durometer Hardness (Shore A) | 12 to 18 | 12 to 18 | ASTM D2240 |

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| Injection | Nominal Value (English) | Nominal Value (SI) |
|-------------------------|-------------------------|--------------------|
| Rear Temperature | 290 to 310 °F | 143 to 154 °C |
| Middle Temperature | 315 to 335 °F | 157 to 168 °C |
| Front Temperature | 340 to 350 °F | 171 to 177 °C |
| Nozzle Temperature | 355 to 365 °F | 179 to 185 °C |
| Mold Temperature | 60 to 75 °F | 16 to 24 °C |
| Injection Rate | Moderate-Fast | Moderate-Fast |
| Back Pressure | 90.0 to 175 psi | 0.621 to 1.21 MPa |
| Screw L/D Ratio | 20.0:1.0 | 20.0:1.0 |
| Screw Compression Ratio | 1.5:1.0 | 1.5:1.0 |

Notes

These are typical property values not to be construed as specification limits.