

Teknor Apex Telcar® TL-3954-70 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Vinyl (PVC) , PVC, Wire and Cable Grade

Material Notes:

Uses: Appliance Wire Insulation; Appliance Wire Jacketing; Cable Jacketing; Connectors; Flexible Cord Jacketing; Industrial Cable Insulation; Terminal Cable Jacketing; Underground Power Cable; Wire and Cable Applications; Wire Jacketing Forms: Pellets Processing
 Method: Extrusion; Injection Molding Injection Notes: Injection Rate: Moderate-Fast Extrusion Notes: Screw Speed: 30 to 100 rpm
 Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Telcar-TL-3954-70-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------|
| Specific Gravity | 1.18 g/cc | 1.18 g/cc | ASTM D792 |
| Melt Flow | 1.70 g/10 min @Load 2.16 kg, Temperature 230 °C | 1.70 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|---------|------------|
| Hardness, Shore A | 70 | 70 | ASTM D2240 |
| Tensile Strength at Break | 5.10 MPa | 740 psi | ASTM D412 |
| Elongation at Break | 700 % | 700 % | ASTM D412 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-------------|-------------|-----------|
| Brittleness Temperature | <= -60.0 °C | <= -76.0 °F | ASTM D746 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 171 - 193 °C | 340 - 380 °F | |
| Middle Barrel Temperature | 177 - 199 °C | 350 - 390 °F | |
| Front Barrel Temperature | 182 - 204 °C | 360 - 400 °F | |
| Nozzle Temperature | 188 - 210 °C | 370 - 410 °F | |
| Zone 1 | 166 - 188 °C | 330 - 370 °F | |
| Zone 2 | 171 - 193 °C | 340 - 380 °F | |
| Zone 3 | 177 - 199 °C | 350 - 390 °F | |
| Zone 5 | 182 - 204 °C | 360 - 400 °F | |

| Die Temperature Processing Properties | 190 - 210 °C Metric | 374 - 410 °F English | Comments |
|--|------------------------|-------------------------|------------------------|
| Melt Temperature | 188 - 210 °C | 370 - 410 °F | Processing Temperature |
| Mold Temperature | 25.0 - 65.6 °C | 77.0 - 150 °F | |
| Injection Pressure | 1.38 - 6.89 MPa | 200 - 1000 psi | |
| Back Pressure | 0.172 - 0.345 MPa | 25.0 - 50.0 psi | |
| Cushion | 0.381 - 2.54 cm | 0.150 - 1.00 in | |
| Screw Speed | 50 - 100 rpm | 50 - 100 rpm | |

| Descriptive Properties | Value | Comments |
|------------------------|--------|----------|
| Appearance | Opaque | |

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