

Teknor Apex Telcar® TL-1934A Styrenic Thermoplastic Elastomer

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

Material Notes:

Notes: RoHS Compliant Uses: Appliance Wire Insulation; Cable Jacketing; Flexible Cord Insulation; Flexible Cord Jacketing; Wire and Cable Applications; Wire Jacketing Agency Ratings: UL 1581Forms: Pellets Processing Method: Extrusion; Injection Molding Injection Notes: Injection Rate: Moderate-Fast Extrusion Notes: Screw Speed: 30 to 100 rpmInformation Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Telcar-TL-1934A-Styrenic-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------|
| Specific Gravity | 1.30 g/cc | 1.30 g/cc | ASTM D792 |
| Melt Flow | 13.0 g/10 min @Load 5.00 kg, Temperature 200 °C | 13.0 g/10 min @Load 11.0 lb, Temperature 392 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--------------------------------|----------------------------------|----------------------|
| Hardness, Shore A | 88 | 88 | ASTM D2240 |
| Tensile Strength at Break | 10.8 MPa @Thickness 1.91 mm | 1560 psi @Thickness 0.0750 in | 20 in/min; ASTM D412 |
| Elongation at Break | 600 % | 600 % | 20 in/min; ASTM D412 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|---------------------------|-----------------------------|----------------------|
| Brittleness Temperature | -57.0 °C | -70.6 °F | ASTM D746 |
| Flammability, UL94 | V-0 @Thickness 1.52 mm | V-0 @Thickness 0.0600 in | IEC 60695-11-10, -20 |
| Oxygen Index | 28 % | 28 % | ASTM D2863 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|------------|-----------|
| Dielectric Constant | 2.41 | 2.41 | ASTM D150 |
| Dielectric Strength | 39.4 kV/mm | 1000 kV/in | ASTM D419 |
| Dissipation Factor | 0.0033 | 0.0033 | ASTM D150 |

| Processing Properties | Metric | English | Comments |
|-------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 171 - 193 °C | 340 - 380 °F | |

| Processing Properties | Metric | English | Comments |
|--------------------------|-------------------|-----------------|------------------------|
| 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 | 190 - 210 °C | 374 - 410 °F | |
| 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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