

Teknor Apex APEX[®] 1009 Polyvinyl Chloride, Flexible

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

Material Notes:

Notes: 60[°]C General Purpose; RoHS Compliant Uses: Connectors; Grommets; Plugs; Strain Reliefs
Forms: Pellets Processing Method: Injection Molding Agency Ratings: UL QMFZ2 .E54709 Wire Types: Molded Components Additional Information: Temperature Rating: 60[°]C Recognized Component, CSA C22.2 No. 0.6, CSA Flammability Classification: 0.6HB at 0.88mm Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-APEX-1009-Polyvinyl-Chloride-Flexible.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---------------------|---------------------|-----------|
| Specific Gravity | 1.37 g/cc | 1.37 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.010 - 0.012 cm/cm | 0.010 - 0.012 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|------------------------|
| Hardness, Shore A | 86 | 86 | 10 seconds; ASTM D2240 |
| Tensile Strength at Break | 11.7 MPa | 1700 psi | ASTM D638 |
| Elongation at Break | 260 % | 260 % | ASTM D638 |

| Thermal Properties | Metric | English | Comments |
|-----------------------------------|----------------------|----------------------|---------------------------|
| Maximum Service Temperature, Air | 60.0 [°] C | 140 [°] F | Continuous Use; ASTM D794 |
| Brittleness Temperature | -25.0 [°] C | -13.0 [°] F | ASTM D746 |
| UL RTI, Electrical | 90.0 [°] C | 194 [°] F | UL 746 |
| | @Thickness 0.889 mm | @Thickness 0.0350 in | |
| | 90.0 [°] C | 194 [°] F | |
| UL RTI, Mechanical without Impact | 80.0 [°] C | 176 [°] F | UL 746 |
| | @Thickness 0.889 mm | @Thickness 0.0350 in | |
| | 80.0 [°] C | 176 [°] F | |
| UL RTI, Mechanical without Impact | 90.0 [°] C | 194 [°] F | UL 746 |
| | @Thickness 1.40 mm | @Thickness 0.0551 in | |
| | 90.0 [°] C | 194 [°] F | |
| UL RTI, Mechanical without Impact | 80.0 [°] C | 176 [°] F | UL 746 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| | 90.0 [°] C | 194 [°] F | |
| UL RTI, Mechanical without Impact | 80.0 [°] C | 176 [°] F | UL 746 |
| | @Thickness 1.40 mm | @Thickness 0.0551 in | |
| | 90.0 [°] C | 194 [°] F | |
| UL RTI, Mechanical without Impact | 80.0 [°] C | 176 [°] F | UL 746 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| | 90.0 [°] C | 194 [°] F | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------------------|----------------------|------------|
| Flammability, UL94 | @Thickness 1.20 mm | @Thickness 0.0472 in | |
| | HB | HB | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| Oxygen Index | 24 % | 24 % | ASTM D2863 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------|---------------------|----------|
| Comparative Tracking Index | >= 600 V | >= 600 V | UL 746 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| Hot Wire Ignition, HWI | 60 - 120 sec | 60 - 120 sec | UL 746 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| High Amp Arc Ignition, HAI | 60 - 120 arcs | 60 - 120 arcs | UL 746 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------|---------|------------------------|
| Melt Temperature | 182 Â°C | 360 Â°F | Processing Temperature |

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

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