

Teknor Apex HFFR 2003 Polyolefin, Halogen Free

Category : Polymer , Thermoplastic , Polyolefin , Polyolefin, Wire/Cable Grade

Material Notes:

Notes: RoHS Compliant Features: Flame Retardant; Halogen Free Uses: Communication Wire Jacketing; Electronic Cable Jacketing; Security Cable Jacketing; Fiber Optic Cable Agency Ratings: IEC 60332-1; UL QMTT2 .E200337 Processing Method: Extrusion Forms: Pellets Additional Information: Ultimate Elongation Retained, UL 1581, Oven Aged, 7 days, 100Â°C: 78% Tensile Strength Retained, UL 1581, Oven Aged, 7 days, 100Â°C: 103% Acid Gas, MIL-C-24643: < 5.0 mg Acidity of Gases, IEC-754-2: < 6.0 pH Conductivity: < 2.0 ÂµS/cm Smoke Index, NES-711: 4.16 Toxicity Index, NES-713: 0.006 Cone Calorimeter at 50 kW/m2, Peak Heat Release Rate: 370 kW/m2 Cone Calorimeter at 50 kW/m2, Total Heat Released: 170 MJ/m2 Cone Calorimeter at 50 kW/m2, Peak Smoke: 1.5 l/m Cone Calorimeter at 50 kW/m2, Time to Sustained Ignition: 89 secInformation Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-HFFR-2003-Polyolefin-Halogen-Free.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	46	46	10 seconds; ASTM D2240
Tensile Strength at Break	10.7 MPa	1550 psi	ASTM D638
Elongation at Break	230 %	230 %	ASTM D638

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-38.0 Â°C	-36.4 Â°F	ASTM D746
Oxygen Index	52 %	52 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.20e+15 ohm-cm	2.20e+15 ohm-cm	ASTM D257
Dielectric Constant	3.81	3.81	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0039	0.0039	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Appearance	Opaque	

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