

Teknor Apex HFFR 2002 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 Agency Ratings: ICEA Unspecified Rating; IEC Unspecified Rating Processing Method: Extrusion Forms: Pellets
 Additional Information: Ultimate Elongation Retained, UL 1581, Oven Aged, 7 days, 100Â°C: 72% Tensile Strength Retained, UL 1581, Oven Aged, 7 days, 100Â°C: 113% 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: 5.82 Toxicity Index, NES-713: 0.016 Cone Calorimeter at 50 kW/m2, Peak Heat Release Rate: 240 kW/m2 Cone Calorimeter at 50 kW/m2, Total Heat Released: 170 MJ/m2 Cone Calorimeter at 50 kW/m2, Peak Smoke: 1.3 l/m Cone Calorimeter at 50 kW/m2, Time to Sustained Ignition: 101 sec
 Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-HFFR-2002-Polyolefin-Halogen-Free.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Melt Flow	3.30 g/10 min	3.30 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 190 Â°C	@Load 22.0 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47	47	10 seconds; ASTM D2240
Tensile Strength at Break	7.86 MPa	1140 psi	ASTM D638
Elongation at Break	270 %	270 %	ASTM D638

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-9.00 Â°C	15.8 Â°F	ASTM D746
Oxygen Index	35 %	35 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.90e+14 ohm-cm	3.90e+14 ohm-cm	ASTM D257
Dielectric Constant	4.12	4.12	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0051	0.0051	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Appearance	Opaque	

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