

Teknor Apex HFFR 2005 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; Plenum Cable Jacketing Agency Ratings: IEC Unspecified Rating; ICEA Unspecified Rating; 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: 113% Ultimate Elongation Retained, UL 1581, Oven Aged, 7 days, 113Â°C: 74% Tensile Strength Retained, UL 1581, Oven Aged, 7 days, 113Â°C: 108% Ultimate Elongation Retained, UL 1581, Oven Aged, 7 days, 125Â°C: 73% Tensile Strength Retained, UL 1581, Oven Aged, 7 days, 125Â°C: 116% Ultimate Elongation Retained, UL 1581, Oven Aged, 7 days, 136Â°C: 72% Tensile Strength Retained, UL 1581, Oven Aged, 7 days, 136Â°C: 109% 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: < 10.0 Toxicity Index, NES-713: 0.085 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: < 10.0 Toxicity Index, NES-713: < 1.0 Cone Calorimeter at 50 kW/m2, Peak Heat Release Rate: 154 kW/m2 Cone Calorimeter at 50 kW/m2, Total Heat Released: 157 MJ/m2 Cone Calorimeter at 50 kW/m2, Peak Smoke: 0.8 l/m Cone Calorimeter at 50 kW/m2, Time to Sustained Ignition: 138 sec Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-HFFR-2005-Polyolefin-Halogen-Free.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Melt Flow	1.50 g/10 min @Load 10.0 kg, Temperature 190 Â°C	1.50 g/10 min @Load 22.0 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	10 seconds; ASTM D2240
Tensile Strength at Break	14.3 MPa	2070 psi	ASTM D638
Elongation at Break	140 %	140 %	ASTM D638

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-40.0 Â°C	-40.0 Â°F	ASTM D746
Oxygen Index	44 %	44 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.70e+14 ohm-cm	9.70e+14 ohm-cm	ASTM D257
	3.66	3.66	

Dielectric Constant Electrical Properties	Metric @Frequency 1000 Hz	English @Frequency 1000 Hz	ASTM D150 Comments
Dissipation Factor	0.0020 @Frequency 1000 Hz	0.0020 @Frequency 1000 Hz	ASTM D150

Descriptive Properties	Value	Comments
Appearance	Opaque	

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