



HFFR 2002

Teknor Apex Company - Polyolefin

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant	• Halogen Free	
Uses	• Communication Wire Jacketing	• Electronic Cable Jacketing	• Security Cable Jacketing
Agency Ratings	• ICEA Unspecified Rating	• IEC Unspecified Rating	
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.44		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	3.3	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1140	psi	ASTM D638
Tensile Elongation (Break)	270	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec)	47		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	15.8	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.9E+14	ohms·cm	ASTM D257
Dielectric Constant (1 kHz)	4.12		ASTM D150
Dissipation Factor (1 kHz)	5.1E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	35	%	ASTM D2863

Additional Information

Ultimate Elongation Retained, UL 1581, Oven Aged, 7 days, 100°C: 72 %
 Tensile Strength Retained, UL 1581, Oven Aged, 7 days, 100°C: 113 %
 Acid Gas, MIL-C-24643: <5.0 mg
 Acidity of Gases, IEC-754-2: <6.0 pH
 Conductivity: <2.0 µS/cm
 Smoke Index, NES-711: 5.82
 Toxicity Index, NES-713: 0.016
 Cone Calorimeter @ 50 kW/m², Peak Heat Release Rate: 240 kW/m²
 Cone Calorimeter @ 50 kW/m², Total Heat Released: 170 MJ/m²
 Cone Calorimeter @ 50 kW/m², Peak Smoke: 1.3 l/m
 Cone Calorimeter @ 50 kW/m², Time to Sustained Ignition: 101 sec

Notes

¹ Typical properties: these are not to be construed as specifications.