



HFFR 2003

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 Cable Jacketing • Electronic Cable Jacketing	• Fiber Optic Cable • Security Cable Jacketing	
Agency Ratings	• IEC 60332-1	• UL QMTT2	
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.43		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1550	psi	ASTM D638
Tensile Elongation (Break)	230	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec)	46		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-36.4	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.2E+15	ohms·cm	ASTM D257
Dielectric Constant (1 kHz)	3.81		ASTM D150
Dissipation Factor (1 kHz)	3.9E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	52	%	ASTM D2863

Additional Information

Ultimate Elongation Retained, UL 1581, Oven Aged, 7 days, 100°C: 78 %
 Tensile Strength Retained, UL 1581, Oven Aged, 7 days, 100°C: 103 %
 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: 4.16
 Toxicity Index, NES-713: 0.006
 Cone Calorimeter @ 50 kW/m², Peak Heat Release Rate: 370 kW/m²
 Cone Calorimeter @ 50 kW/m², Total Heat Released: 170 MJ/m²
 Cone Calorimeter @ 50 kW/m², Peak Smoke: 1.5 l/m
 Cone Calorimeter @ 50 kW/m², Time to Sustained Ignition: 89 sec

Notes

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