



HFFR 2003PC

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	• UL QMTM2
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.28		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1800	psi	ASTM D638
Tensile Elongation (Break)	550	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec)	38		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-50.8	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.5E+12	ohms·cm	ASTM D257
Dielectric Constant (1 kHz)	3.52		ASTM D150
Dissipation Factor (1 kHz)	4.1E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	35	%	ASTM D2863

Additional Information

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: <10.0
Toxicity Index, NES-713: 0.085
Cone Calorimeter @ 50 kW/m², Peak Heat Release Rate: 507 kW/m²
Cone Calorimeter @ 50 kW/m², Total Heat Released: 199 MJ/m²
Cone Calorimeter @ 50 kW/m², Peak Smoke: 2.9 l/m
Cone Calorimeter @ 50 kW/m², Time to Sustained Ignition: 88 sec

Notes

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