

HFFR 2004

Teknor Apex Company - Polyolefin

Friday, June 30, 2017

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin 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
Specific Gravity	1.52		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	0.30	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	2430	psi	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec)	65		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-13.0	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.6E+14	ohms·cm	ASTM D257
Dielectric Constant (1 kHz)	3.72		ASTM D150
Dissipation Factor (1 kHz)	4.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	48	%	ASTM D2863

Additional Information

Ultimate Elongation Retained, UL 1581, Oven Aged, 7 days, 100°C: 80 %
 Tensile Strength Retained, UL 1581, Oven Aged, 7 days, 100°C: 107 %
 Cone Calorimeter @ 50 kW/m², Peak Heat Release Rate: 134 kW/m²
 Cone Calorimeter @ 50 kW/m², Total Heat Released: 166 MJ/m²
 Cone Calorimeter @ 50 kW/m², Peak Smoke: 0.6 l/m
 Cone Calorimeter @ 50 kW/m², Time to Sustained Ignition: 142 sec

Notes

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



Revision Date: 12/12/2013

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Teknor Apex Company
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*In U.S. for Vinyls, TPEs, Colorants,
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