

K-Guard HFFR 771

Polyolefin

Technovinyl Polymers India Ltd.

Message:

K-Guard HFFR 771 is a Polyolefin material. It is available in Africa & Middle East.

Important attributes of K-Guard HFFR 771 are:

RoHS Compliant

Flame Retardant

Corrosion Resistant

Halogen Free

Non-Toxic

Typical application of K-Guard HFFR 771: Wire & Cable

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Corrosion Resistance		
	Halogen Free		
	Non-Toxic		
Uses	Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (160°C/21.6 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus - 2% Secant	300	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	10.8	MPa	ASTM D412
Tensile Elongation ² (Break)	210	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 168 hr)	12	%	ASTM D573
Change in Ultimate Elongation in Air (100°C, 168 hr)	-22	%	ASTM D573
Change in Tensile Strength (60°C, 168 hr, in IRM 902 Oil)	-11	%	ASTM D471
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-48.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Insulation Resistance ³	5500	Mohms/1000 ft	ASTM D470

Insulation Resistance Constant - K-Value ⁴	19000		ASTM D470
Heat Release			ASTM E1354
Average	84	kW/m ²	
Peak	128	kW/m ²	
Hot Knife Test (90°C) ⁵	Pass		IEC 540
Specific Extinction Area	216000	m ² /kg	ASTM E1354
Time to Ignition	2.8	min	ASTM E1354
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	34	%	ASTM D2863

NOTE

1. 510 mm/min
2. 510 mm/min
3. Immersed in water for 16 hrs
4. Immersed in water for 16 hrs
5. 4 hrs, % penetration, Clause 8

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