

EFRHATAN 88 A

Polyurethane (Polyether based)

Crosspolimeri S.p.A.

Message:

EFRHATAN 88 A is a modified polyurethane-polyether that is flame retardant and halogen free.

EFRHATAN 88 A is a thermoplastic elastomeric polyurethane HFFR compound polyether basis. This compound offer outstanding chemical and hydrolysis resistance.

The material exhibits excellent physical-mechanical performance resulting in tubes and sheathings with optimal kink resistance, strength characteristics and flame retardance.

Good processability and excellent extrusion stability.

Material to use on the production of cables for electronic devices connection and technical sheathing.

General Information			
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Processability		
	Good Processing Stability		
	Halogen Free		
	Hydrolysis Resistant		
Uses	Cable Jacketing		
	Tubing		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	88		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	32.0	MPa	ASTM D638
Tensile Elongation (Break)	490	%	ASTM D638
Abrasion Resistance	50.0	mm ³	DIN 53516
Cold Flexibility	-40	°C	ISO 458
Service Temperature	90	°C	
Thermal Stability	> 1	hr	ISO 182/A
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	60	kN/m	DIN 53515
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (120°C, 168 hr)	< 20	%	IEC 60811

Change in Tensile Strain at Break in Air (100°C, 168 hr)	< 30	%	IEC 60811
Change in Tensile Stress (80°C, 72 hr, in IRM 902 Oil)	< 20	%	UL 1581
Change in Tensile Strain at Break (80°C, 72 hr, in IRM 902 Oil)	< 30	%	UL 1581
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index	28	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	3.0 to 6.0	hr	
Cylinder Zone 1 Temp.	135	°C	
Cylinder Zone 2 Temp.	145	°C	
Cylinder Zone 3 Temp.	160	°C	
Cylinder Zone 4 Temp.	170	°C	
Cylinder Zone 5 Temp.	180	°C	
Die Temperature	190	°C	

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