

EFRHATAN 90

Thermoplastic Polyurethane Elastomer (Polyester)

Crosspolimeri S.p.A.

Message:

EFRHATAN : is the trade-mark of our modified polyurethane-polyesther suitable for sheath.
EFRHATAN 90 : material suitable for sheathing extrusion on cables wire application.

General Information			
Uses	Cable Jacketing		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
	Wire & Cable Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	89		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	49.0	MPa	IEC 60811
Tensile Strain (Break)	550	%	IEC 60811
Abrasion Resistance	35.0	mm ³	DIN 53516
Cold Flexibility	-22	°C	ISO 458
Exercise Temperature	90	°C	
Thermal Stability	> 1	hr	ISO R 182
Head Temperature	200	°C	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	90	kN/m	DIN 53515
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (120°C, 168 hr)	< 30	%	UL 1581
Change in Tensile Strain at Break in Air (120°C, 168 hr)	< 30	%	UL 1581
Change in Tensile Stress			UL 1581
90°C, 168 hr, in ASTM #2 Oil	< 30	%	
121°C, 18 hr, in ASTM #2 Oil	< 30	%	
Change in Tensile Strain at Break			UL 1581
90°C, 168 hr, in ASTM #2 Oil	< 30	%	
121°C, 18 hr, in ASTM #2 Oil	< 30	%	
Flammability	Nominal Value	Unit	Test Method

Oxygen Index ¹	22	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	3.0 to 6.0	hr	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 2 Temp.	180	°C	
Cylinder Zone 3 Temp.	190	°C	
Cylinder Zone 4 Temp.	210	°C	
Die Temperature	190	°C	
NOTE			
1.	Indicative value		

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