

FRAGOM PR/11

Polyolefin

Crosspolimeri S.p.A.

Message:

FRAGOM is the trade-mark of our flame retardant halogen free polyolefine thermoplastic compounds.

FRAGOM PR/11 is a flame retardant polyolefine thermoplastic compound having high temperature index and good oxygen index, suitable for electrical cables sheathing.

General Information			
Features	Flame Retardant		
	Halogen Free		
Uses	Cable Jacketing		
Agency Ratings	BS 7655 LTS 1-3		
	CEI 2011 M1		
	VDE 0207 HM2		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	11 to 15	g/10 min	ASTM D1238
Water Absorption - 24 hr (100°C)	18.0	g/m ²	IEC 60811
Hot Pressure Test - 4h at 80°C -Penetration	40	%	IEC 60811
Corrosive Gas in Smoke - pH	> 4.50		IEC 60754-2
Halogen Content	< 0.200	%	IEC 60754-1
Temperature Index (Burning) ¹	275	°C	NES 715
Head Temperature	160	°C	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	93		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	13.0	MPa	IEC 60811
Tensile Strain (Break)	190	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 168 hr)	17	%	IEC 60811
Change in Tensile Strain at Break in Air (100°C, 168 hr)	-12	%	IEC 60811
Change in Tensile Stress			IEC 60811
23°C, 4 hr, in Gasoline	-20	%	

70°C, 4 hr, in SAE 20 Oil	-20	%	
Change in Tensile Strain at Break			IEC 60811
23°C, 4 hr, in Gasoline	3.0	%	
70°C, 4 hr, in SAE 20 Oil	4.0	%	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	33	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	120	°C	
Cylinder Zone 2 Temp.	130	°C	
Cylinder Zone 3 Temp.	140	°C	
Cylinder Zone 4 Temp.	155	°C	
Die Temperature	160	°C	
NOTE			
1.	21% O2		

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