

FRAGOM PR/410 SI

Polyolefin

Crosspolimeri S.p.A.

Message:

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

FRAGOM PR/410 SI is a flame retardant polyolefine thermoplastic compound having high temperature index and good oxygen index, suitable for cable sheathing and insulation.

General Information			
Features	Flame Retardant		
	Halogen Free		
Uses	Cable Jacketing		
Agency Ratings	BS 7655 LTS 1-3		
	CEI 2011 M1		
	VDE 0207 HM2		
	VDE 0207 HM4		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	53		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	13.5	MPa	ISO 527-2
Tensile Strain (Break)	180	%	ISO 527-2
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (110°C, 168 hr)	5.0	%	IEC 60811
Change in Tensile Strain at Break in Air (110°C, 168 hr)	-19	%	IEC 60811
Change in Tensile Stress (70°C, 4 hr, in SAE 20 Oil)	0.0	%	ISO 1817
Change in Tensile Strain at Break (70°C, 4 hr, in SAE 20 Oil)	-4.0	%	ISO 1817
Thermal	Nominal Value		Test Method
Hot Pressure Test - Penetration ¹ (90°C)	40.0		IEC 60811
Corrosive Gas in Smoke - pH	> 4.50		IEC 60754-2
Halogen Content	0	%	IEC 60754-1
Temperature Index (Burning) ²	280	°C	NES 715

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	36	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	110	°C	
Cylinder Zone 2 Temp.	130	°C	
Cylinder Zone 3 Temp.	155	°C	
Cylinder Zone 4 Temp.	160	°C	
Cylinder Zone 5 Temp.	170	°C	
Die Temperature	175	°C	
NOTE			
1.	4 hr, K=0.6		
2.	21% O ₂		

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