

FRAGOM PR/399

Polyolefin

Crosspolimeri S.p.A.

Message:

FRAGOM : is the trademark of our flame retardant halogen free polyolefine thermoplastic compounds.

FRAGOM PR/399: flame retardant polyolefine thermoplastic compound having high temperature index and good oxygen index, suitable for cable sheathing and insulation.

Certify : CEI2011 M1,VDE0207 HM2

General Information			
Features	Workability, good		
	Halogen-free		
	Flame retardancy		
Uses	Cable sheath		
	Wire and cable applications		
	Insulating material		
Agency Ratings	CEI 2011 M1		
	VDE 0207 HM2		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	7.0 - 10	g/10 min	ASTM D1238
Water absorption rate-24 hr (100°C)	12.0	g/m ²	IEC 60811
Hot pressing test-4h at 80°C -Penetratrion	25	%	IEC 60811
Halogen Content		%	IEC 60754-1
Temperature Index (Combustion) ¹	290	°C	NES 715
Corrosive gases in flue gas-pH	> 4.30		IEC 60754-2
Head Temperature	170	°C	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	46		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	> 10.0	MPa	IEC 60811
Tensile Strain (Break)	> 150	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 168 hr)	8.0	%	IEC 60811

Change in Tensile Strain at Break in Air (100°C, 168 hr)	-12	%	IEC 60811
Change in Tensile Strength (70°C, 4 hr, in SAE 20 Oil)	< 30	%	IEC 60811
Change in Tensile Strain at Break (70°C, 4 hr, in SAE 20 Oil)	< 30	%	IEC 60811
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	40	%	ASTM D2863

Additional Information

No detrimental effects on properties and capability of FRAGOM in presence of Masterbatch colours, black included. We suggest to dry masterbatch before using.

Extrusion	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	130	°C
Cylinder Zone 2 Temp.	145	°C
Cylinder Zone 3 Temp.	155	°C
Cylinder Zone 4 Temp.	165	°C
Die Temperature	175	°C

NOTE

1. 21% O₂

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WECHAT