

FRAGOM G/458 NAT

Polyolefin

Crosspolimeri S.p.A.

Message:

FRAGOM G/458 NAT: flame retardant crosslinkable compound having good temperature index and oxygen index, suitable for cable sheathing and insulation. It is a conveniently grafted compound able to react in presence of moisture and of a catalyst.

We normally suggest our catalyst type MAC/100 SCU

REACTION BETWEEN GRAFTING AND CATALYST

These two compounds, separately stored, must be mixed before starting extrusion in the ratio:

GRAFTING/CATALYST 95/5

We suggest to use the compound to produce cables with size not more than 10 mm².

Certify: BS 7655 EI5,VDE 0207 HM1,BS 4066,AZ/NZS X-HF-110,R-HF-110,HF-110-R

General Information			
Features	Crosslinkable		
	Halogen-free		
	Flame retardancy		
Uses	Cable sheath		
	Wire and cable applications		
	Insulating material		
Agency Ratings	BS 4066		
	BS 7655 EI5		
	VDE 0207 HM1		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	15 - 20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	45		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	> 11.0	MPa	IEC 60811
Tensile Strain (Break)	> 160	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	19	%	IEC 60811
Change in Tensile Strain at Break in Air (135°C, 168 hr)	-16	%	IEC 60811

Thermal	Nominal Value	Unit	Test Method
Thermoset ¹			IEC 60811
200°C	90	%	IEC 60811
Residual : 200°C	0.0	%	IEC 60811
Temperature index ²	> 290	°C	IEC 60811
Conductivity		μS/mm	IEC 60754-2
Halogen Content		%	IEC 60754-1
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+14	ohms·cm	IEC 60167
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	30	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	155	°C	
Cylinder Zone 2 Temp.	170	°C	
Cylinder Zone 3 Temp.	180	°C	
Cylinder Zone 4 Temp.	195	°C	
Cylinder Zone 5 Temp.	205	°C	
Die Temperature	215	°C	
Extrusion instructions			
CROSSLINKING:Crosslinking of the finished product is obtained by: Immersion of the bobbin in hot water at 85/90°C f or two hours (up to 1 mm thickness) Steam treatment at 0,15 bar for 6/8 hours			
NOTE			
1.	20 N/cm ²		
2.	21% O ₂		

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