

# FRAGOM G/478

Polyolefin  
Crosspolimeri S.p.A.

Message:

FRAGOM G/478: 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 suggest our catalyst type MAC/308 PSL to use with low compression and PVC screw. Suitable also for solar cables insulation and sheath adding 5/6% of catalyst GETILAN MAC/300 S.

REACTION BETWEEN GRAFTING AND CATALYST

These two compounds, separately stored, must be mixed before starting extrusion in the ratio:  
GRAFTING/CATALYST 95/5

Certify: BS7211EI5, VDE0207HM1, IEC332-1, BS4066

General Information			
Features	Crosslinkable		
	Halogen-free		
	Flame retardancy		
Uses	Cable sheath		
	Wire and cable applications		
	Insulating material		
Agency Ratings	BS 4066		
	BS 7211 EI5		
	IEC 60332-1		
	VDE 0207 HM1		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	7.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	12.5	MPa	IEC 60811
Tensile Strain			
Fracture <sup>1</sup>	> 50	%	
Fracture	200	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	-12	%	IEC 60811

Change in Tensile Strain at Break in Air (135°C, 168 hr)	6.0	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset <sup>2</sup>			IEC 60811
250°C	50	%	IEC 60811
Residual : 250°C	5.0	%	IEC 60811
Temperature index	290	°C	IEC 60811
Halogen Content		%	IEC 60754-1
Corrosion - pH	> 4.40		IEC 60754-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	35	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	80.0 - 90.0	°C	
Cylinder Zone 2 Temp.	100 - 115	°C	
Cylinder Zone 3 Temp.	145	°C	
Cylinder Zone 4 Temp.	160	°C	
Cylinder Zone 5 Temp.	170	°C	
Die Temperature	175	°C	
Extrusion instructions			
CROSSLINKING:Crosslinking of the finished product is obtained by: Immersion in hot water at 85/90°C for two hours (up to 0,5 mm thickness) Steam treatment at 0,15 bar for 6/8 hours Ambient air crosslinking at natural temperature and moisture, after a right number of days depending on climatic conditions.			
NOTE			
1.	5/6% addition of RESTING HF 44		
2.	20 N/cm <sup>2</sup>		

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#### Recommended distributors for this material

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