

# FRAGOM G/459 20

Polyolefin

Crosspolimeri S.p.A.

## Message:

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

FRAGOM G/459 20 is a 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/202 or MAC/100 SCU (more active in reaction)

### 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 mm<sup>2</sup>.

General Information			
Features	Crosslinkable		
	Flame Retardant		
	Halogen Free		
Uses	Cable Jacketing		
Agency Ratings	BS 4066		
	BS 7211 EI5		
	IEC 60332-3		
	VDE 0207 HM1		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	4.0 to 9.0	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)	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)	15	%	IEC 60811
Change in Tensile Strain at Break in Air (135°C, 168 hr)	-15	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Hot Set <sup>1</sup>			IEC 60811
200°C	60	%	
Residual Value : 200°C	10	%	

Conductivity	< 5.00	μS/mm	IEC 60754-2
Halogen Content	< 1	%	IEC 60754-1
Temperature Index (Burning) <sup>2</sup>	> 300		NES 715
Operating Temperature - EI5	90	°C	BS 7655
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+14	ohms·cm	BS 6622
Dielectric Constant (50 Hz)	4.60		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	30	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150	°C	
Cylinder Zone 2 Temp.	165	°C	
Cylinder Zone 3 Temp.	180	°C	
Cylinder Zone 4 Temp.	190	°C	
Cylinder Zone 5 Temp.	205	°C	
Die Temperature	210	°C	
NOTE			
1.	20 N/cm <sup>2</sup>		
2.	21% O <sub>2</sub>		

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