

# FRAGOM G/458 ES

Polyolefin

Crosspolimeri S.p.A.

## Message:

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

FRAGOM

G/458 ES : flame retardant crosslinkable compound suitable for insulation and sheathing of cables of all sections.

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 or MAC/150 SCU (more reactive type).

REACTION BETWEEN GRAFTING AND CATALYST

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

GRAFTING/CATALYST 95/5

Certify : VDE 0207-24 HM3,BS 7655 EI5

General Information			
Features	Crosslinkable		
	Halogen-free		
	Flame retardancy		
Uses	Cable sheath		
	Wire and cable applications		
	Insulating material		
Agency Ratings	BS 7655 EI5		
	VDE 0207-24 HM3		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	7.0 - 12	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 Strength	> 13.0	MPa	IEC 60811
Tensile Strain (Break)	> 250	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 60811
127°C, 40 hr	15	%	IEC 60811
135°C, 168 hr	20	%	IEC 60811
Change in Tensile Strain at Break in Air			IEC 60811

127°C, 40 hr	-7.0	%	IEC 60811
135°C, 168 hr	-10	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset <sup>1</sup>			IEC 60811
200°C	70	%	IEC 60811
Residual Value : 200°C	5.0	%	IEC 60811
Temperature index-21% O2	> 290	°C	IEC 60811
Conductivity		μS/mm	IEC 60754-2
Halogen Content		ppm	IEC 60754-1
Corrosive gases in flue gas-pH	> 4.30		IEC 60754-2
Head Temperature	205	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+14	ohms·cm	IEC 60167
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	32	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	3.0 - 4.0	hr	
Cylinder Zone 1 Temp.	150	°C	
Cylinder Zone 2 Temp.	170	°C	
Cylinder Zone 3 Temp.	180	°C	
Cylinder Zone 4 Temp.	195	°C	
Die Temperature	215	°C	
Extrusion instructions			
CROSSLINKING:Crosslinking of the finished product is obtained by: immersion in hot water at 80/85°C. steam treatment at 0,15 bar. ambient air crosslinking at natural temperature and moisture, after a right number of days depending on climatic conditions.			
NOTE			
1.	20 N/cm2		

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#### Recommended distributors for this material

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