

GETILAN GPE/409 AFM

Crosslinked Polyethylene

Crosspolimeri S.p.A.

Message:

GETILAN is the trade-mark of our crosslinkable polythene

GETILAN GPE/409 AFM is a chemically crosslinkable low smoke and low toxicity halogen free flame retardant compound for insulation and sheathing.

It is a conveniently grafted polythene able to react in presence of moisture and of a catalyst.

We normally suggest our catalyst type MAC/100 PSF.

Where and when anti-ageing and anti-copper functions are required, we suggest our type MAC/203 or MAC/203 HSL (less in reaction).

REACTION BETWEEN GRAFTING AND CATALYST

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

GRAFTING/CATALYST 97/3

General Information			
Features	Crosslinkable		
	Halogen-free		
	Self-extinguishing		
Uses	Cable sheath		
Agency Ratings	CEI 2011 G10		
	VDE 0207 2X11		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	0.50 - 3.0	g/10 min	ASTM D1238
Water absorption rate-24 hr(100°C)	8.00	g/m ²	IEC 60811
Thermoset ¹			IEC 60811
200°C	30	%	IEC 60811
Residual : 200°C	0.0	%	IEC 60811
Halogen Content	0		IEC 60754-1
Corrosive gases in flue gas-pH	> 4.30		IEC 60754-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	14.0	MPa	IEC 60811
Tensile Strain (Break)	230	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	8.0	%	IEC 60811
Change in Tensile Strain at Break in Air (135°C, 168 hr)	-16	%	IEC 60811
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms · cm	BS 6622

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	25	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150	°C	
Cylinder Zone 2 Temp.	160	°C	
Cylinder Zone 3 Temp.	170	°C	
Cylinder Zone 4 Temp.	180	°C	
Cylinder Zone 5 Temp.	195	°C	
Die Temperature	205	°C	
Extrusion instructions			
Crosslinking of the finished product is obtained by: Immersion of the bobbin in hot water at 85/90°C for two hours (up to 3 mm thickness) Steam treatment at 0.15 bar for 5/6 hours.			
NOTE			
1.	20 N/cm ²		

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