

# GETILAN GPE/410 AF

Crosslinked Polyethylene

Crosspolimeri S.p.A.

## Message:

GETILAN is the trade-mark of our crosslinkable polythene.

GETILAN GPE/410 AF 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/202 or MAC/308 PSL (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		
	Self-extinguishing		
Uses	Cable sheath		
Agency Ratings	CEI 2011 G10		
	VDE 0207 2X11		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	3.0 - 8.0	g/10 min	ASTM D1238
Water absorption rate-24 hr(100°C)	6.00	g/m <sup>2</sup>	IEC 60811
Thermoset <sup>1</sup>			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)	17.0	MPa	IEC 60811
Tensile Strain (Break)	240	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (155°C, 168 hr)	8.0	%	IEC 60811
Change in Tensile Strain at Break in Air (155°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.	160	°C	
Cylinder Zone 2 Temp.	170	°C	
Cylinder Zone 3 Temp.	180	°C	
Cylinder Zone 4 Temp.	190	°C	
Cylinder Zone 5 Temp.	205	°C	
Die Temperature	215	°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<sup>2</sup>

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#### Recommended distributors for this material

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