

# GETILAN GPE/400 M

Crosslinked Polyethylene

Crosspolimeri S.p.A.

## Message:

GETILAN is our trade-mark of our crosslinkable polythene.

GETILAN GPE/400 M is a medium density chemically crosslinkable compound for medium voltage power cable insulation.

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.

Where and when anti-copper and anti-ageing functions are required, we suggest our type MAC/100-SCU (Special catalyst).

REACTION BETWEEN GRAFTING AND CATALYST:

These two compounds, separately stored, must be mixed before

starting extrusion in the ratio:

GRAFTING/CATALYST 95/5

General Information			
Features	Crosslinkable		
Uses	Cable sheath		
Agency Ratings	IEC 60502		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.932	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.20 - 0.50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	20.0	MPa	IEC 60811
Tensile Strain (Break)	430	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ISO 188
127°C, 40 hr	10	%	ISO 188
135°C, 168 hr	8.0	%	ISO 188
Change in Tensile Strain at Break in Air			ISO 188
127°C, 40 hr	-18	%	ISO 188
135°C, 168 hr	-10	%	ISO 188
Thermal	Nominal Value	Unit	Test Method
Thermoset <sup>1</sup>			IEC 60811
200°C	50	%	IEC 60811
Residual : 200°C	-5.0	%	IEC 60811
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms · cm	BS 6622
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 2 Temp.	185	°C	

Cylinder Zone 3 Temp.	195	°C
Cylinder Zone 4 Temp.	205	°C
Cylinder Zone 5 Temp.	215	°C
Die Temperature	225	°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 2 mm thickness)  
Steam treatment at 0.15 bar for 5/6 hours.  
Air crosslinking at natural temperatures and moisture.

NOTE

1. 20 N/cm<sup>2</sup>

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