

GETILAN GPE/400 E

Crosslinked Polyethylene

Crosspolimeri S.p.A.

Message:

GETILAN is our trade-mark of our crosslinkable polythene.

GETILAN GPE/400 E is a medium density chemically crosslinkable polythene for low and medium voltage power cable 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 or MAC/100 SCU red copper resistant.

REACTION BETWEEN GRAFTING AND CATALYST:

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

GRAFTING/CATALYST 95/5

General Information			
Features	Crosslinkable		
Uses	Cable sheath		
Agency Ratings	BS 7655		
	IEC 60502		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	4.0 - 5.0	g/10 min	ASTM D1238
Water absorption rate-24 hr (100°C)	6.00	g/m ²	IEC 60811
	-5.0		
Thermoset ¹ (200°C)	50 - 70	%	IEC 60811
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	18.0	MPa	IEC 60811
Tensile Strain (Break)	450	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	8.0	%	ISO 188
Change in Tensile Strain at Break in Air (135°C, 168 hr)	-13	%	ISO 188
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms · cm	BS 6622
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.	190	°C
Die Temperature	200	°C
Extrusion instructions		

CROSSLINKING:Crosslinking of the finished product is obtained by:
Immersion of the bobbin into hot water at 85/90°C for two hours (up to 3 mm thickness).
Steam treatment at 0.15 for bar 5/6 hours.
Faster ambient curing is possible depending from the atmospheric conditions.

NOTE

- 20 N/cm²

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