

GETILAN GPE/200 E

Crosslinked Polyethylene

Crosspolimeri S.p.A.

Message:

GETILAN: is our trade-mark of our crosslinkable polythene.

GETILAN GPE/200 E: medium density chemically crosslinkable compound 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 catalyst.

We normally suggest our type MAC/100 PSF or MAC/100 SCU (red cupper resistant).

REACTION BETWEEN GRAFTING AND CATALYST:

These two polythenes, separately stored, must be mixed before starting extrusion in the ratio: GRAFTING/CATALYST 95/5

Certify: BS 7655 GP8, IEC502 XLPE

General Information			
Features	Crosslinkable		
	Medium density		
Uses	Low voltage insulation		
	Cable sheath		
	Medium voltage insulation		
Agency Ratings	BS 7655 GP8		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20 - 0.70	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	15.0	MPa	IEC 60811
Tensile Strain (Break)	400	%	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)	-10	%	ISO 188
Thermal	Nominal Value	Unit	Test Method
Thermoset ¹			IEC 60811
200°C	40	%	IEC 60811
Residual Value	-5.0	%	IEC 60811
Power factor-50 Hz(23°C)	4.00E-4		IEC 250
Head Temperature	215	°C	

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	BS 6622
Dielectric Strength (20°C)	21	kV/mm	IEC 243
Relative Permittivity (23°C)	2.36		IEC 250

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	145	°C
Cylinder Zone 2 Temp.	170	°C
Cylinder Zone 3 Temp.	190	°C
Cylinder Zone 4 Temp.	205	°C
Die Temperature	220	°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

1. 20 N/cm²

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