

GETILAN GPE/452 BLACK

Crosslinked Polyethylene

Crosspolimeri S.p.A.

Message:

GETILAN is our trade-mark of our crosslinkable polythene.

GETILAN GPE/452 BLACK is a high density chemically crosslinkable polythene for insulated aerial cables

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

We normally suggest our catalyst type MAC/203 HS.

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			
Additive	Carbon black (3%)		
Features	Crosslinkable		
Uses	Cable sheath		
	Outdoor application		
Agency Ratings	NF C 33-209		
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.20 - 0.60	g/10 min	ASTM D1238
Carbon Black Content	2.5	%	
Thermoset ¹			IEC 60811
150°C		%	IEC 60811
Residual : 150°C	0.00		IEC 60811
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			IEC 60811
127°C, 40 hr	10	%	IEC 60811
150°C, 240 hr	10	%	IEC 60811
Change in Tensile Strain at Break in Air			IEC 60811
127°C, 40 hr	-5.0	%	IEC 60811
150°C, 240 hr	-20	%	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.	165	°C	

Cylinder Zone 2 Temp.	180	°C
Cylinder Zone 3 Temp.	190	°C
Cylinder Zone 4 Temp.	205	°C
Cylinder Zone 5 Temp.	210	°C
Die Temperature	225	°C

Extrusion instructions

CROSSLINKING: 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.

Air crosslinking at natural temperatures and moisture, after a right number of days depending on climatic conditions, is possible.

NOTE

1. 40 N/cm²

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