

# GETILAN GPE/150

Crosslinked Polyethylene

Crosspolimeri S.p.A.

## Message:

GETILAN GPE/150: medium density chemically crosslinkable compound for low voltage power cables 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 SCU or MAC/203 less in reaction.

REACTION BETWEEN GRAFTING AND CATALYST:

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

Certify: IEC 60502-1 XLPE, EPR/HEPR,CEI 2011 G7,HD 22-1 EI7

General Information			
Features	Crosslinkable		
	Medium density		
Uses	Low voltage insulation		
	Wire and cable applications		
	Insulating material		
Agency Ratings	CEI 2011 G7		
	HD 22.1 EI7		
	IEC 60502-1		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.45	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	18.0	MPa	IEC 60811
Tensile Strain (Break)	500	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 60811
127°C, 40 hr <sup>1</sup>	10	%	IEC 60811
150°C, 168 hr <sup>2</sup>	5.0	%	IEC 60811
Change in Tensile Strain at Break in Air			IEC 60811
127°C, 40 hr <sup>3</sup>	-15	%	IEC 60811
150°C, 168 hr <sup>4</sup>	-18	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset			IEC 60811
-- <sup>5</sup>	0.0	%	IEC 60811
250°C <sup>6</sup>	80	%	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.	200	°C	
Cylinder Zone 5 Temp.	210	°C	
Die Temperature	225	°C	
Extrusion instructions			

Crosslinking of the finished product is obtained by:

Immersion of the bobbin into hot water at 85/90 °C for some 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.	Air Bomb
2.	Heat Aging
3.	Air Bomb
4.	Heat Aging
5.	Residual Value
6.	20 N/cm <sup>2</sup>

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

