

POLIGOM G/25

Ethylene Propylene Diene Terpolymer

Crosspolimeri S.p.A.

Message:

POLIGOM G/25 is a flexible crosslinkable EPR/EPDM polymer.

POLIGOM G/25 is a chemically crosslinkable rubber for low voltage cable insulation and sheathing.

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

We normally suggest our catalyst type MAC/202, for special application is better to use 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			
Features	Crosslinkable		
Uses	Low voltage insulation		
	Cable sheath		
	Wire and cable applications		
Agency Ratings	HD 22.1 EI4		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	77		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	> 12.5	MPa	IEC 60811
Tensile Strain (Break)	> 250	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	-8.0	%	IEC 60811
Change in Tensile Strain at Break in Air (150°C, 168 hr)	-17	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset ¹			IEC 60811
200°C	60	%	IEC 60811
Residual : 200°C	5.0	%	IEC 60811
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160	°C	
Cylinder Zone 2 Temp.	175	°C	
Cylinder Zone 3 Temp.	190	°C	
Cylinder Zone 4 Temp.	205	°C	

Cylinder Zone 5 Temp.	210	°C
Die Temperature	215	°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 1/1,5 mm thickness)

Steam treatment at 0,15 bar for 5/6 hours.

Ambient crosslink is possible on sufficient time that depend from air temperature and relative moisture.

NOTE

1. 20 N/cm²

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