

POLIGOM G/30 CS

Ethylene Propylene Diene Terpolymer

Crosspolimeri S.p.A.

Message:

POLIGOM : is a crosslinkable EPR/EPDM.

POLIGOM G/30 CS : 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 MAC/202-203 or MAC/100 SCU (more reactive).

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

GRAFTING/CATALYST 95/5

Cerfity: HD221 S3 EI4-EI6, AS/NZS 3808:2000 X-90, R-E-110, E-110-R

General Information			
Features	Crosslinkable		
Uses	Low voltage insulation		
	Cable sheath		
	Wire and cable applications		
Agency Ratings	AS/NZS 3008:2000 X-90		
	HD 22.1 S3 EI4-EI6		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	1.0 - 5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	> 10.0	MPa	IEC 60811
Tensile Strain (Break)	> 500	%	IEC 60811
Elastomers	Nominal Value	Unit	Test Method
Compression Set (140°C, 6 hr)	< 45	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	11	%	IEC 60811
Change in Tensile Strain at Break in Air (150°C, 168 hr)	-13	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset ¹			IEC 60811
250°C	70	%	IEC 60811
Residual : 250°C	5.0	%	IEC 60811
Head Temperature	210	°C	

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60167
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.	200	°C	
Die Temperature	215	°C	
Extrusion instructions			
CROSSLINKING:Crosslinking of the finished product is obtained by:-Immersion of the bobbin in hot water at 85/90 °C f or 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/cm ²		

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