POLIGOM G/42

Ethylene Propylene Diene Terpolymer

Crosspolimeri S.p.A.

Message:

POLIGOM : is the trade mark of our crosslinkable EPDM compound (phthalate plasticizers free).
POLIGOM G/42 : chemically crosslinkable elastomer for low voltage cable insulation and sheathing: suitable for G7.
It is a conveniently grafted compound able to react in presence of
moisture and of a catalyst.
We normally suggest our catalyst type MAC/100 SCU.
REACTION BETWEEN GRAFTING AND CATALYST:
These two compounds, separately stored, must be mixed before starting extrusion in the ratio:
GRAFTING/CATALYST 94/6
Certify : EN 50363-0 G7,BS 7655 GP4-GP5-GP6-GP7,HD 22.1 EI7

General Information			
Features	Crosslinkable		
Uses	Low voltage insulation Cable sheath		
Agency Ratings	BS 7655 GP4-GP5-GP6-GP7 EN 50363-0 HD 22.1 EI7		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.900	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	7.0 - 9.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	89		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	> 18.0	MPa	IEC 60811
Tensile Strain (Break)	> 450	%	IEC 60811
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (150°C, 168 hr)	7.0	%	IEC 60811
Change in Tensile Strain at Break in Air (150°C, 168 hr)	-10	%	IEC 60811
Thermal	**Nominal Value**	**Unit**	**Test Method**
Thermoset [1]			IEC 60811
250°C	60	%	IEC 60811
Residual : 250°C	0	%	IEC 60811
Head Temperature	190	°C	

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (20°C)	> 4.0E+15	ohms·cm	IEC 60502
Dielectric Strength (20°C)	39	kV/mm	ASTM D149

Additional Information
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. -Practically we suggest air crosslinking at natural temperatures and moisture: three or five days are enough.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	140	°C
Cylinder Zone 2 Temp.	160	°C
Cylinder Zone 3 Temp.	180	°C
Cylinder Zone 4 Temp.	190	°C
Die Temperature	205	°C

NOTE	
1.	20 N/cm^2

Recommended distributors for this material

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