POLIGOM GO/10

Ethylene Propylene Diene Terpolymer

Crosspolimeri S.p.A.

Message:

POLIGOM is the trade-mark of our crosslinkable EPDM compound.
POLIGOM GO/10 is a chemically crosslinkable OIL RESISTANT rubber for power cables 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/100 PSF or MAC/203 HS.
REACTION BETWEEN GRAFTING AND CATALYST:
These two compounds, separately stored, must be mixed before starting extrusion in the ratio:
GRAFTING/CATALYST 98,5/1,5
Certify: HD22.1 EM2, BS7655 RS4

General Information			
Features	Crosslinkable Oil resistance		
Uses	Cable sheath Insulating material		
Agency Ratings	BS 7655 RS4 HD 22.1 EM2		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.950	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	82		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	> 10.0	MPa	IEC 60811
Tensile Strain (Break)	> 300	%	IEC 60811
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (70°C, 240 hr)	< 15	%	IEC 60811
Change in Tensile Strain at Break in Air (70°C, 240 hr)	< 15	%	IEC 60811
Change in Tensile Strength			
100°C, 24 hr, in IRM 902 oil	-8.0	%	IEC 60811
100°C, 24 hr, in diesel [1]	-29	%	ISO 1817
100°C, 70 hr, in SAE 20 oil	< 30	%	IEC 60811
Change in Tensile Strain at Break			
100°C, 24 hr, in 2.5% detergent (Tide) [2]	-48	%	ISO 1817

100°C, 24 hr, in IRM 902 oil	-17	%	IEC 60811
100°C, 70 hr, in SAE 20 oil	< 30	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset [3]			IEC 60811
200°C		%	IEC 60811
Residual : 200°C		%	IEC 60811
Head Temperature	220	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	BS 6622
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	
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 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.	Test Method : GOST
2.	Test Method : GOST
3.	20 N/cm^2

Recommended distributors for this material

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