

POLIGOM R/75

Ethylene Propylene Diene Terpolymer

Crosspolimeri S.p.A.

Message:

POLIGOM is the trade-mark of our crosslinkable EPDM compound (phthalate plasticizers free).

POLIGOM R/75 is a chemically crosslinkable rubber 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/202 or MAC/203.

FOR SOLAR CABLES INSULATION WE SUGGEST TO USE CATALYST MAC/520 at 7-7,5 %.

REACTION BETWEEN GRAFTING AND CATALYST:

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

GRAFTING/CATALYST 94/6

General Information			
Features	Crosslinkable		
Uses	Cable sheath		
Agency Ratings	CEI 2011 G7		
	IEC 60502		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	1.0 - 4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	14.0	MPa	IEC 60811
Tensile Strain (Break)	750	%	IEC 60811
Elongation at break-40 hr(127°C)	PASS		IEC 60811
Tensile strength-40 hr(127°C)	PASS		IEC 60811
Thermoset ¹			IEC 60811
250°C	55	%	IEC 60811
Residual : 250°C	0.0	%	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
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms · cm	IEC 60093
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 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.

NOTE

1. 20 N/cm²

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