

POLIGOM R/75 G

Ethylene Propylene Diene Terpolymer

Crosspolimeri S.p.A.

Message:

POLIGOM : is the trade-mark of our crosslinkable EPDM/EPR/HEPR compound.

POLIGOM R/75 G : chemically crosslinkable rubber suitable for sheathing and G 7,G 21 and TUV insulation extrusion.

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

We normally suggest our catalyst type MAC/203 HG.

REACTION BETWEEN GRAFTING AND CATALYST:

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

GRAFTING/CATALYST 95/5.

Certify : CEI 2011 G7,IEC 60502-1 HEPR, IMQ G21,TUV.

General Information			
Features	Crosslinkable		
Uses	Cable sheath		
	Insulating material		
Agency Ratings	CEI 2011 G7		
	IEC 60502-1		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	1.0 - 3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	91		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	> 12.0	MPa	IEC 60811
Tensile Strain (Break)	650	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 60811
127°C, 40 hr	< 8.0	%	IEC 60811
150°C, 240 hr	< 10	%	IEC 60811
Change in Tensile Strain at Break in Air			IEC 60811
127°C, 40 hr	< 15	%	IEC 60811
150°C, 240 hr	< 20	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset ¹			IEC 60811
250°C	60	%	IEC 60811
Residual : 250°C	0.0	%	IEC 60811

Head Temperature	205	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	145	°C	
Cylinder Zone 2 Temp.	155	°C	
Cylinder Zone 3 Temp.	180	°C	
Cylinder Zone 4 Temp.	190	°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: six or 10 days are enough.No detrimental effects on crosslinking properties and capability of POLIGOM R/75 in presence of Mastebatch colours, black included.We suggest to dry masterbatch before using especially black color.

NOTE

1. 20 N/cm²

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