

# POLIGOM R/75 C

Ethylene Propylene Diene Terpolymer

Crosspolimeri S.p.A.

## Message:

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

POLIGOM R/75 C : 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.

REACTION BETWEEN GRAFTING AND CATALYST:

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

GRAFTING/CATALYST 94/6

Certify : CEI 2011 G7, IEC 60502-1 HEPR

General Information			
Features	Crosslinkable		
Uses	Low voltage insulation		
	Cable sheath		
Agency Ratings	CEI 2011 G7		
	IEC 60502-1 HEPR		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm <sup>3</sup>	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)	93		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	> 14.0	MPa	IEC 60811
Tensile Strain (Break)	700	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	-15	%	IEC 60811
Change in Tensile Strain at Break in Air (150°C, 168 hr)	-20	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset <sup>1</sup>			IEC 60811
250°C	60	%	IEC 60811
Residual : 250°C	0.0	%	IEC 60811
Head Temperature	210	°C	
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	> 1.0E+15	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	
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 fivedays are enough.			
NOTE			
1.	20 N/cm <sup>2</sup>		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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