

FRAGOM G/990 XA

Polyolefin

Crosspolimeri S.p.A.

Message:

FRAGOM is the trade-mark of our flame retardant halogen free polyolefine compounds.

FRAGOM G/990 XA is a flame retardant crosslinkable compound having GOOD RESISTANCE TO OIL AND FUEL for 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 SCU or MAC/203 HS. To use in solar cables sheathing (TUV) we suggest to add 10-11% of catalyst MAC/500.

REACTION BETWEEN GRAFTING AND CATALYST

These two compounds, separately stored, must be mixed before starting extrusion in the ratio: GRAFTING/CATALYST 95/5

Certify: VDE0207-24 HM3, CEI 2011 M2, IEC 60092-359 SHF2, IEC 332-1, TUV

General Information			
Features	Crosslinkable		
	Fuel resistance		
	Oil resistance		
	Halogen-free		
	Flame retardancy		
Uses	Cable sheath		
	Wire and cable applications		
	Insulating material		
Agency Ratings	CEI 2011 M2		
	IEC 60092-359 SHF2		
	IEC 60332-1		
	VDE 0207-24 HM3		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	4.0 - 9.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	> 10.0	MPa	IEC 60811
Tensile Strain (Break)	> 150	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 60811
127°C, 40 hr ¹	15	%	IEC 60811

135°C, 240 hr ²	8.0	%	IEC 60811
Change in Tensile Strain at Break in Air			IEC 60811
127°C, 40 hr ³	-17	%	IEC 60811
135°C, 240 hr ⁴	5.0	%	IEC 60811
Change in Tensile Strength			IEC 60811
70°C, 168 hr ⁵	-15	%	IEC 60811
100°C, 168 hr ⁶	-25	%	IEC 60811
Change in Ultimate Elongation			IEC 60811
70°C, 168 hr ⁷	-19	%	IEC 60811
100°C, 168 hr ⁸	0.0	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset ⁹			IEC 60811
250°C	80	%	IEC 60811
Residual : 250°C	0.0	%	IEC 60811
Hot pressing test-4h at 140°C (K=0, 6)-penetration		%	IEC 60811
Conductivity		μS/mm	IEC 60754-2
Halogen Content		%	IEC 60754-1
Toxicity-pH	> 4.30		IEC 60754-2
Head Temperature	180	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (50 Hz)	3.90		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	35	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150	°C	
Cylinder Zone 2 Temp.	160	°C	
Cylinder Zone 3 Temp.	170	°C	
Cylinder Zone 4 Temp.	175	°C	
Die Temperature	205	°C	
Extrusion instructions			
CROSSLINKING:Crosslinking of the finished product is obtained by: Immersion in hot water at 80/85°C. Steam treatment at 0,15 bar. Ambient air crosslinking at natural temperature and moisture, after a right number of days depending on climatic conditions.			
NOTE			
1.	Air Bomb		
2.	Heat Aging		
3.	Air Bomb		
4.	Heat Aging		
5.	Aging in IRM 903 oil		
6.	Aging in IRM 902		
7.	Aging in IRM 903 oil		

8.	Aging in IRM 902
9.	20 N/cm ²

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