FRAGOM G/991 XA

Polyolefin

Crosspolimeri S.p.A.

Message:

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

FRAGOM G/991 XA flame retardant crosslinkable compound having GOOD RESISTANCE TO OIL 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. 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

VDE 0207-24 HM3, BS 7655 EI5, CEI 2011 M2, IEC 60092-359 SHF2

General Information			
Features	Crosslinkable		
	Fuel resistance		
	Oil resistance		
	Halogen-free		
	Flame retardancy		
Uses	Cable sheath		
	Wire and cable applications		
	Insulating material		
Agency Ratings	BS 7655 EI5		
	CEI 2011 M2		
	IEC 60092-359 SHF2		
	VDE 0207-24 HM3		
Forms	Particle		
Processing Method	Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	7.0 - 12	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	45		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	> 13.0	MPa	IEC 60811
Tensile Strain (Break)	> 250	%	IEC 60811

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 60811
127°C, 40 hr [1]	15	%	IEC 60811

	Nominal Value	Unit		Test Method
135°C, 168 hr [2]	20	%		IEC 60811
Change in Tensile Strain at Break in Air				IEC 60811
127°C, 40 hr [3]	-7.0	%		IEC 60811
135°C, 168 hr [4]	-10	%		IEC 60811
Change in Tensile Strength				IEC 60811
70°C, 168 hr [5]	-10	%		IEC 60811
100°C, 168 hr [6]	-20	%		IEC 60811
Change in Ultimate Elongation				IEC 60811
70°C, 168 hr [7]	-15	%		IEC 60811
100°C, 168 hr [8]	-19	%		IEC 60811

Thermal	Nominal Value	Unit	Test Method
Thermoset [9]			IEC 60811
250°C	70	%	IEC 60811
Residual : 250°C	5.0	%	IEC 60811
Conductivity		µS/mm	IEC 60754-2
Halogen Content		%	IEC 60754-1
Toxicity-pH	> 4.30		IEC 60754-2
Head Temperature	205	°C	

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	32	%	ASTM D2863

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150	°C
Cylinder Zone 2 Temp.	170	°C
Cylinder Zone 3 Temp.	180	°C
Cylinder Zone 4 Temp.	195	°C
Die Temperature	215	°C

Extrusion instructions

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 oil
7.	Aging in IRM 903 oil
8.	Aging in IRM 902 oil
9.	20 N/cm²

infringement occurs, please contact us immediately.