FRAGOM PR/420 NAT P

Polyolefin

Crosspolimeri S.p.A.

Message:

FRAGOM PR PR/420 NAT P is a flame retardant halogen free polyolefin thermoplastic commpounds.
FRAGOM PR PR/420 NAT P is a flame retardant polyolefin thermoplastic compound having high temperature index and good oxygen index, suitable for cable sheathing and insulation.

General Information	
Features	Flame Retardant Halogen Free High Heat Resistance
Uses	Cable Jacketing Insulation Wire & Cable Applications
Agency Ratings	BS 7655 LTS 1-3-4 CEI 2011 M1 IEC 60502-1 Type ST8 VDE 0207 HM4
Forms	Pellets
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
160°C/21.6 kg	6.0 to 15	g/10 min	
190°C/21.6 kg	2.0 to 7.0	g/10 min	
Water Absorption - 9 hr (70°C)	< 1.0	%	IEC 60811
Hot Pressure Test - Penetration (90°C) [1]	30	%	IEC 60811
Conductivity	< 4.00	µS/mm	IEC 60754-2
Corrosive Gas in Smoke - pH	> 4.50		IEC 60754-2
Halogen Content	0	%	IEC 60754-1
Smoke Density			ASTM E662
Flaming Mode, Ds max [2]	54		
Non-flaming Mode, Ds max [3]	200		
Temperature Index (Burning) [4]	330	°C	NES 715
Toxicity	< 1.5	%	CEI 20-37 Part 2

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	53		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	13.0	MPa	IEC 60811
Tensile Strain (Break)	180	%	IEC 60811
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (110°C, 168 hr)	13	%	IEC 60811
Change in Tensile Strain at Break in Air (110°C, 168 hr)	-22	%	IEC 60811
Change in Tensile Stress			
in Hydrocarbons	-10	%	ENI 018 100
70°C, 4 hr, in SAE 20 Oil	12	%	IEC 60811
Change in Tensile Strain at Break			
in Hydrocarbons	-15	%	ENI 018 100
70°C, 4 hr, in SAE 20 Oil	-16	%	IEC 60811
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	> 43	%	ASTM D2863
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	60.0 to 70.0	°C	
Drying Time	2.0 to 3.0	hr	
Cylinder Zone 1 Temp.	100	°C	
Cylinder Zone 2 Temp.	110	°C	
Cylinder Zone 3 Temp.	145	°C	
Cylinder Zone 4 Temp.	170	°C	
Cylinder Zone 5 Temp.	175	°C	
Die Temperature	180	°C	
NOTE			
1.	K=0.6, 6 hr		
2.	8 min		
3.	13 min		
4.	21% O2		

Recommended distributors for this material

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