

FRAGOM PR/04 AFKN NERO UP

Thermoplastic

Crosspolimeri S.p.A.

Message:

FRAGOM: It is our thermoplastic compound with low flame propagation under fire conditions. The material is low smoke, halogenfree and heavy-metal free.

FRAGOM PR/04 AFKN NERO UP: is designed to extrude cable sheathing at high speed without any migration risks as it is completely free of plasticizers. This grade contains >2.5% wt of carbon black and suitable UV stabilizers for outdoor applications.

Certify: CEI 2011 M1, VED0207 HM2-HM4, BS7655 LTS1-TLS2-LTS3-LTS4

General Information			
Additive	Carbon Black UV Stabilizer		
Features	Good UV Resistance Halogen Free Low Smoke Emission		
Uses	Insulation Wire & Cable Applications		
Agency Ratings	BS 7655 LTS1-2-3-4 CEI 2011 M1 VDE 0207 HM2 VDE 0207 HM3 VDE 0207 HM4		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (160°C/21.6 kg)	5.0 to 10	g/10 min	ASTM D1238
Carbon Black Content ¹	> 2.5	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	> 11.0	MPa	IEC 60811
Tensile Strain (Break)	> 150	%	IEC 60811
Aging	Nominal Value	Unit	
Change in Tensile Strength in Air (110°C, 168 hr)	< 30	%	

Change in Tensile Strain at Break in Air (110°C, 168 hr)	< 30	%	
Thermal	Nominal Value	Unit	Test Method
Hot Pressure Test - 6 h at 90°C-Penetration	< 50	%	IEC 60811
Corrosive Gas in Smoke - pH	> 4.50		IEC 60754-2
Halogen Content	< 0.100	%	IEC 60754-1
Temperature Index (Burning) ²	> 300	°C	NES 715
Tear Strength	> 8.0	kN/m	BS 6469 99.1
Head Temperature	185	°C	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	> 30	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	130	°C	
Cylinder Zone 2 Temp.	145	°C	
Cylinder Zone 3 Temp.	160	°C	
Cylinder Zone 4 Temp.	180	°C	
Die Temperature	190	°C	
NOTE			
1.	by weight		
2.	21% O ₂		

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