

MEGOLON™ HF 8142 NATURAL

Thermoplastic

AlphaGary

Message:

A FLEXIBLE, ZERO HALOGEN, 105°C RATED, FLAME RETARDED, THERMOPLASTIC OLEFINIC COMPOUND INTENDED FOR DEMANDING TELECOMMUNICATION CABLES.

General Information			
Features	Good flexibility		
	Halogen-free		
	Flame retardancy		
Uses	Communication Cable Jacketing		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47 - 1.53	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	2.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	57 - 63		ASTM D2240
Shaw D, 15 seconds	48 - 54		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (0.762 mm)	11.7	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	130	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹ (136°C, 168 hr)	-6.0	%	UL Unspecified
Change in Ultimate Elongation in Air ² (136°C, 168 hr)	-13	%	UL Unspecified
Change in Tensile Strength ³ (70°C, 4 hr, in ASTM #2 Oil)	-29	%	UL Unspecified
Change in Ultimate Elongation ⁴ (70°C, 4 hr, in ASTM #2 Oil)	22	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-20.0	°C	ASTM D746
Hot pressing test-% Loss(80°C)	20	%	IEC 811-3-1
Temperature index	> 355	°C	NES 715
Halogen Content			
--	0	%	MIL C-24643

--		mg/g	IEC 754-1
Smoke Index	5.35		NES 711
Toxicity	4.60		NES 713
Acid gas emission pH	5.40		IEC 60754-2
Acid gas emission conductivity	0.380	μS/mm	IEC 60754-2
Extruder Screw Compression Ratio	1.5:1.0 to 2.5:1.0		
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant			ASTM D150
23°C, 1 MHz	3.58		ASTM D150
23°C, 100 MHz	3.49		ASTM D150
23°C, 200 MHz	3.46		ASTM D150
23°C, 350 MHz	3.45		ASTM D150
23°C, 600 MHz	3.41		ASTM D150
23°C, 1.00 GHz	3.38		ASTM D150
Dissipation Factor			ASTM D150
23°C, 1 MHz	0.022		ASTM D150
23°C, 100 MHz	0.014		ASTM D150
23°C, 200 MHz	0.012		ASTM D150
23°C, 350 MHz	0.010		ASTM D150
23°C, 600 MHz	8.5E-3		ASTM D150
23°C, 1.00 GHz	7.9E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	44	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.040	%	
Cylinder Zone 1 Temp.	154	°C	
Cylinder Zone 2 Temp.	160	°C	
Cylinder Zone 3 Temp.	166	°C	
Cylinder Zone 4 Temp.	171	°C	
Cylinder Zone 5 Temp.	171	°C	
Adapter Temperature	177	°C	
Melt Temperature	171 - 182	°C	
Die Temperature	177	°C	
Extrusion instructions			
Barrier ScrewScreen Pack: 20/20 or 20/40			
NOTE			
1.	Thickness: 30 mil		
2.	Thickness: 30 mil		
3.	Thickness: 30 mil		
4.	Thickness: 30 mil		

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