

MEGOLON™ HF 8553 NATURAL

Thermoplastic
AlphaGary

Message:

A FLEXIBLE, THERMOPLASTIC, ZERO HALOGEN, FLAME RETARDED OLEFINIC JACKETING COMPOUND INTENDED FOR DEMANDING TELECOMMUNICATION CABLES (IEC 332-3C, CMR).

General Information			
Features	Flame Retardant		
	Good Flexibility		
	Halogen Free		
Uses	Communication Cable Jacketing		
Agency Ratings	IEC Unspecified Rating		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59 to 1.63	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
Shore D	54 to 60		
Shore D, 15 sec	44 to 50		
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (0.762 mm)	10.3	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	150	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹			UL Unspecified
121°C, 168 hr	6.0	%	
136°C, 168 hr	8.0	%	
Change in Ultimate Elongation in Air ²			UL Unspecified
121°C, 168 hr	-2.0	%	
136°C, 168 hr	-4.0	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-16.0	°C	ASTM D746
Hot Pressure Test - % Loss (80°C)	25	%	IEC 811-3-1
Temperature Index	315	°C	NES 715
Acid Gas Emission Conductivity	0.462	µS/mm	IEC 60754-2
Acid Gas Emission pH			

--	5.40		IEC 60754-2
--	3.42		MIL C-24643
Halogen Content			
--	< 5	mg/g	IEC 60754-1
--	0	%	MIL C-24643
NBS Smoke Density			
Flaming, Dmc : 3.18 mm	250		
Non-Flaming, Dmc : 3.18 mm	140		
Smoke Index	3.00		NES 711
Toxicity	4.30		NES 713
Acid Gas Emission	0.35	%	MIL C-24643
Draw Down	1.5:1.0		
Extruder Screw Compression Ratio	1.0:1.0 to 2.0:1.0		
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant			
23°C, 1 MHz	3.88		ASTM D150
23°C, 100 MHz	3.87		
23°C, 350 MHz	3.75		
23°C, 1.00 GHz	3.19		
Dissipation Factor			
23°C, 1 MHz	0.022		ASTM D150
23°C, 100 MHz	0.015		
23°C, 350 MHz	6.8E-3		
23°C, 1.00 GHz	1.1E-3		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	48	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	60.0 to 70.0	°C	
Cylinder Zone 1 Temp.	135	°C	
Cylinder Zone 2 Temp.	140	°C	
Cylinder Zone 3 Temp.	145	°C	
Cylinder Zone 4 Temp.	150	°C	
Cylinder Zone 5 Temp.	160	°C	
Melt Temperature	165 to 175	°C	
Die Temperature	165	°C	
NOTE			
1.	Thickness: 30 mil		
2.	Thickness: 30 mil		

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