MEGOLON™ HF 8110

Thermoplastic

AlphaGary

Message:

MEGOLON HF8110 is a thermoplastic, halogen free, fire retardant compound for use as low voltage insulation or sheathing/jacketing. Suitable for thin wall applications. Good processability on low compression screws.
APPLICATIONS
UK: BS7878 : 7. BS7655 LTS 1 and LTS 3.
Germany DIN VDE 0207, part 24, type HM2

General Information			
Features	Flame Retardant Good Processability Halogen Free		
Uses	Cable Jacketing Low Voltage Insulation Thin-walled Insulation		
Agency Ratings	BS 7655 LTS 1-3 BS 7878:7 DIN VDE 0207, Part 24, Type HM2		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.53	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	33	g/10 min	ISO 1133
Mooney Viscosity (ML 1+4, 140°C)	40	MU	ASTM D1646
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			
-- [1]	12.4	MPa	IEC 60811-1-2
--	11.5	MPa	IEC 60811-1-1
Tensile Strain			
Break [2]	130	%	IEC 60811-1-2
Break	160	%	IEC 60811-1-1
Elongation at Break - after 4 hours, in ASTM #2 Oil (70°C)	180	%	

Tensile Strength - after 4 hours, in ASTM #2 Oil (70°C)	8.30	MPa	
Hot Pressure Test (80°C)	30	%	IEC 60811-3-1
Acid Gas Emission Conductivity	0.630	µS/cm	IEC 60754-2
Acid Gas Emission pH	4.91		IEC 60754-2
Flammability Temperature Index	280	°C	ISO 4589-3
Smoke Density			ASTM E662
Flaming mode [3]	< 87	Ds	
Non-flaming mode [4]	< 190	Ds	
Toxicity	2.00		NES 713
Halogen Acid Gas Evolution	0.0	%	IEC 60754-1
Draw Down	1.5:1.0		
Extruder Screw Compression Ratio	1.0:1.0 to 2.0:1.0		

Aging	Nominal Value	Unit
Change in Tensile Strength in Air (100°C, 168 hr)	8.0	%
Change in Tensile Strain at Break in Air (100°C, 168 hr)	-20	%
Change in Tensile Stress (70°C, 4 hr, in ASTM #2 Oil)	-28	%
Change in Tensile Strain at Break (70°C, 4 hr, in ASTM #2 Oil)	15	%

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	34	%	ISO 4589-2

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.	after 7 days at 100°C
2.	after 7 days at 100°C
3.	Time to maximum: 10 minutes
4.	Time to maximum: 14 minutes

Recommended distributors for this material

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