

MEGOLON HF8110

Sheathing or Low Voltage Insulation Compound

DESCRIPTION

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

TECHNICAL PROPERTIES

Primary Properties	Unit	Nominal Value	Test Method
Tensile strength	MPa	11.5	IEC 60811-1-1
Elongation at break	%	160	IEC 60811-1-1
Oxygen Index	%	34	ISO 4589-2
Density	g/cc	1.53	ASTM D-792
Mooney viscosity (1+4 mins, 140°C)		40	ASTM D-1646
Melt Flow Rate (21.6 kg, 190°C)	g/10 mins.	33	ISO 1133

Mechanical Properties	Unit	Nominal Value	Test Method
Tear strength	N/mm	-	BS 6469:99.1
Tensile strength after 7 days at 100°C	MPa	12.4	IEC 60811-1-2
Variation	%	+8	
Elongation at break after 7 days at 100°C	%	128	IEC 60811-1-2
Variation	%	-20	

Thermomechanical Properties	Unit	Nominal Value	Test Method
Hot pressure at 80°C	%	30	IEC 60811-3-1
Hot deformation at 90°C	%	-	BS 6469:99.1
Cold elongation at -25°C	%	-	IEC 60811-1-4
Cold impact at -25°C	%	-	IEC 60811-1-4

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Fire and Smoke Test Properties	Unit	Nominal Value	Test Method
Flammability temperature index	°C	280	ISO 4589-3
Halogen acid gas evolution	%	0	IEC 60754-1
Corrosivity of gases		-	IEC 60754-2
pH		4.91	
Conductivity	µS/cm	.63	
Smoke density – Flaming mode	Ds max	87	ASTM E-662
Time to maximum	minutes	10	
Smoke density – Non-flaming mode	Ds max	185	ASTM E-662
Time to maximum	minutes	14	
Toxicity index		2.0	NES 713

Oil Resistance Properties			Tensile Strength (MPa)	Variation (%)	Elongation at Break (%)	Variation (%)	Volume Swell (%)
Medium	Temperature	Duration					
ASTM 2	23°C	168 hours	-	-	-	-	-
ASTM 2	70°C	4 hours	8.3	-28	184	+15	
SAE 20	70°C	4 hours	-	-	-	-	-
Diesel	23°C	168 hours	-	-	-	-	-
Diesel	70°C	4 hours	-	-	-	-	-

Other Properties	Unit	Nominal Value	Test Method
Hardness	Shore D	61	ASTM D-2240
Ozone resistance		-	ASTM D-470
Water immersion – 7 days at 70°C		-	BS 6469:99.1
Variation of tensile strength	%	-	
Variation of elongation at break	%	-	

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