

Lucobit Lucofin® 7440 HFFR EBA MDH Cable Sheathing

Category : Polymer , Thermoplastic , Ethylene Butyl Acrylate

Material Notes:

Lucofin® 7410 HFFR is a thermoplastic, halogen free flame retardant and low smoke compound for the insulation and/ or sheathing of cables. This grade is based on ethylene butyl acrylate (EBA) and magnesium di hydrate (MDH). Lucofin® 7410 HFFR combines good extrusion properties with flame retardancy. The properties of Lucofin® 7410 HFFR are in compliance with VDE 0207 part 24(HM 2/4), VDE 0207 part 23 (HJ2), BS 6724 as well as other power and telecom standards. Information provided by Lucobit AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucobit-Lucofin-7440-HFFR-EBA-MDH-Cable-Sheathing.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ISO 1183
pH	6.0	6.0	
Mooney Viscosity	40 @Temperature 140 Â°C	40 @Temperature 284 Â°F	ML (1+4); ASTM D 792
Halogen Content	<= 0.050 %	<= 0.050 %	IEC 754-1
Melt Flow	6.5 g/10 min @Load 21.6 kg, Temperature 150 Â°C	6.5 g/10 min @Load 47.6 lb, Temperature 302 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	ISO R 868
Tensile Strength	10.8 MPa	1570 psi	Aged 7 days @ 110Â°C; IEC 60811-1-1
	11.5 MPa	1670 psi	IEC 60811-1-1
Elongation at Break	120 %	120 %	Cold; IEC 60811-1-4
	160 %	160 %	Aged 7 days @ 110Â°C; IEC 60811-1-1
	185 %	185 %	IEC 60811-1-1

Thermal Properties	Metric	English	Comments
Oxygen Index	38 %	38 %	ISO 4589-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.90e+14 ohm-cm	6.90e+14 ohm-cm	IEC 60167

Electrical Properties	Metric	English	Comments
	14 ohm-cm @Temperature 70.0 Å°C	2.10e+14 ohm-cm @Temperature 158 Å°F	7 days water immersion; IEC 60167
Surface Resistance	4.10e+14 ohm	4.10e+14 ohm	IEC 60093
	1.70e+14 ohm @Temperature 70.0 Å°C	1.70e+14 ohm @Temperature 158 Å°F	7 days water immersion; IEC 60093
Dielectric Constant	3.6 @Frequency 50.0 Hz	3.6 @Frequency 50.0 Hz	IEC 60520
	5.3 @Frequency 50.0 Hz, Temperature 20.0 Å°C	5.3 @Frequency 50.0 Hz, Temperature 68.0 Å°F	24h water immersion; IEC 60520
Dissipation Factor	0.00735 @Frequency 50.0 Hz	0.00735 @Frequency 50.0 Hz	IEC 60520
	0.0635 @Frequency 50.0 Hz, Temperature 20.0 Å°C	0.0635 @Frequency 50.0 Hz, Temperature 68.0 Å°F	24h water immersion; IEC 60520

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 220 Å°C	392 - 428 Å°F	

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