

Trelleborg Horda Cable E8409 Easy Strippable Semiconductive Shielding

Category : Polymer , Thermoset

Material Notes:

E8409 is a vulcanizable, strippable semiconductive compound, designed for both XLPE and EPDM rubber insulated cables and use in both dry and steam curing processes. E8409 meets the requirements as below, when optimal processing, extrusion, and end testing procedure are used: AEIC-CS 5/94BS 6622HN 33-S-23 (EDF) IEC 502 IEC 840NF CS 32/321SS 424 14 16, SS 424 14 17 (HD 620 S1:1996) VDE 0273 / 12.87 All information provided by Horda Cable Compounds

Order this product through the following link:

http://www.lookpolymers.com/polymer_Trelleborg-Horda-Cable-E8409-Easy-Strippable-Semiconductive-Shielding.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D1928
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85 - 90	85 - 90	ASTM D2240
Tensile Strength, Yield	13.3 MPa	1930 psi	after aging 1 week @ 135°C; ASTM D638
	14.0 MPa	2030 psi	ASTM D638
Elongation at Break	105 %	105 %	after aging 1 week @ 135°C; ASTM D638
	210 %	210 %	ASTM D638

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 500 ohm-cm	<= 500 ohm-cm	ASTM D257
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1000 ohm-cm	<= 1000 ohm-cm	ASTM D257
	@Temperature 90.0 °C	@Temperature 194 °F	
	<= 1000 ohm-cm	<= 1000 ohm-cm	ASTM D257
	@Temperature 120 °C	@Temperature 248 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	60.0 - 110 °C	140 - 230 °F	
Head Temperature	100 - 130 °C	212 - 266 °F	
Screw Cooling Temperature	40.0 - 50.0 °C	104 - 122 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	≤ 40.0 °C	≤ 104 °F	
Moisture Content	≤ 0.080 %	≤ 0.080 %	QAHC-10420 (Karl Fischer method)

Descriptive Properties	Value	Comments
Hot Set (%)	70/10	200°C, 20 N/cm²; IEC 540
Insulation Shield Stripping Force (N/cm)	10-25	@ 90°

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