

Horda E8400

Ethylene Vinyl Acetate Copolymer
Horda Cable Compounds

Message:

Easy Strippable Semiconductive Shielding
E8400 is a crosslinkable, easy-strippable semiconductive compound, designed for both XLPE and EPDM rubber insulated cables and use in both dry and steam curing processes.

Specifications:
E8400 meets the requirements as below, when optimal processing extrusion and end testing procedure are used:

- AEIC-CS 5/94
- BS 6622
- HN 33-S-23 (EDF)
- IEC 502
- IEC 840
- NF CS 32/321
- SS 424 14 16, SS424 14 17 (HD 620 S1:1996)
- VDE 0273 / 12.87

General Information			
Features	Semi-conductive		
	Peelable		
	Vapor curing		
Uses	Cable sheath		
	Insulation shield		
Agency Ratings	AEIC CS5-94		
	BS 6622		
	EDF HN 33-S-23		
	HD 620 S1		
	IEC 60502		
	IEC 60840		
	NFC 32-321		
	SS 424, 14, 16		
	SS 424, 14, 17		
	VDE 0273/12.87		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ASTM D1928
Moisture Content ¹		ppm	Internal method
Thermoset ² (200°C)	15 - 25	%	IEC 60540

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85 - 90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	13.0	MPa	ASTM D638
Tensile Elongation (Break)	250	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	-5.0	%	ASTM D638
Change in Ultimate Elongation in Air (135°C, 168 hr)	-40	%	ASTM D638
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C	< 5.0E+2	ohms·cm	ASTM D257
90°C	< 1.0E+3	ohms·cm	ASTM D257
120°C	< 1.0E+3	ohms·cm	ASTM D257
Extrusion	Nominal Value	Unit	
Drying Temperature	< 40	°C	
Cylinder Zone 1 Temp.	60 - 110	°C	
Cylinder Zone 2 Temp.	60 - 110	°C	
Cylinder Zone 3 Temp.	60 - 110	°C	
Cylinder Zone 4 Temp.	60 - 110	°C	
Cylinder Zone 5 Temp.	60 - 110	°C	
Die Temperature	100 - 130	°C	
Extrusion instructions			
Screw cooling: 40 to 50 °C			
NOTE			
1.	QAHC-10420 (Karl Fischer method)		
2.	20 N/cm ²		

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