

Horda E8406

Ethylene Vinyl Acetate Copolymer
Horda Cable Compounds

Message:

Easy Strippable Semiconductive Shielding
E8406 is a vulcanisable, easy-strippable semiconductive compound, designed for both XLPE and EPDM rubber insulated cables and use in both dry and steam curing processes.
E8406 meets the requirements as below, when optimal processing extrusion and end testing procedure are used:
AEIC-CS 5/94
IEC 840
BS 6622
NF CS 32/321
HN 33-S-23 (EDF)
SS 424 14 16, SS424 14 17 (HD 620 S1:1996)
IEC 502
VDE 0273 / 12.87

General Information			
Features	Semi-conductive		
	Peelable		
	Vulcanable		
	Vapor curing		
Uses	Cable sheath		
	Insulation shield		
Agency Ratings	AEIC CS5-94		
	BS 6622		
	IEC 60502		
	IEC 60840		
	NFC 32-321		
	SS 424, 14, 63		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ASTM D1928
Moisture Content ¹		ppm	Internal method
Thermoset ² (200°C)	50 - 70	%	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)	240	%	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)	-25	%	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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