

Horda E8900

Ethylene Vinyl Acetate Copolymer
Horda Cable Compounds

Message:

Strippable Semiconductive Shielding
E8900 is a crosslinkable, strippable semiconductive compound, designed for both XLPE and EPDM rubber insulated cables and for use in both dry and steam curing processes.
E8900 meets the requirements as below, when optimal processing extrusion and end testing procedure are used:
AEIC CS8 (latest edition)
BS 6622
IEC 60502
NF C 33-223
NEMA WC 7-1996/ICEA S-95-658

General Information			
Features	Semi-conductive		
	Peelable		
	Vulcanable		
	Vapor curing		
Uses	Cable sheath		
	Insulation shield		
Agency Ratings	AEIC CS8		
	BS 6622		
	ICEA S-95-658		
	IEC 60502		
	NEMA WC-7		
	NF C 33-223		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.16 - 1.18	g/cm ³	ASTM D1928
Mooney Viscosity (ML 1+4, 121°C)	14 - 22	MU	ISO 289
Moisture Content ¹		ppm	Internal method
Thermoset			IEC 60540
200°C ²		%	IEC 60540
200°C ³		%	IEC 60540
Rheometer ⁴			ISO 6502
MH : 195°C	0.200 - 0.341	J	ISO 6502
ML : 195°C	0.0330 - 0.0550	J	ISO 6502
T90 : 195°C	1.4 - 1.6	min	ISO 6502

Stripping Angle	180	°	
Stripping Force ⁵			
EPR : 23°C	2.3 - 2.5	kN/m	
XLPE : 23°C	1.3 - 1.7	kN/m	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85 - 90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	11.0	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)	-50	%	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	< 40.0	°C	
Hopper Temperature	40.0 - 60.0	°C	
Cylinder Zone 1 Temp.	60.0 - 110	°C	
Cylinder Zone 2 Temp.	60.0 - 110	°C	
Cylinder Zone 3 Temp.	60.0 - 110	°C	
Cylinder Zone 4 Temp.	60.0 - 110	°C	
Cylinder Zone 5 Temp.	60.0 - 110	°C	
Die Temperature	100 - 130	°C	
Extrusion instructions			
Neck Temperature: 100 to 130°C Head Temperature: 100 to 130°C			
NOTE			
1.	QAHC-10420 (Karl Fischer method)		
2.	20 N/cm ² , PD		
3.	20 N/cm ²		
4.	Gottfert arc 0.2°		
5.	50 mm/min		

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