

Horda E8551

Polyethylene
Horda Cable Compounds

Message:

Strippable Semiconductive Shielding
E8551 is a crosslinkable, strippable semiconductive compound, designed for both XLPE and EPDM rubber insulated cables and use in both dry and steam curing processes.
Specifications:
E8551 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		
	Crosslinkable		
	Vapor curing		
	Excellent appearance		
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	1.18	g/cm ³	ASTM D1928
Mooney Viscosity (ML 1+4, 121°C)	19	MU	ISO 289
Moisture Content ¹		ppm	Internal method
Thermosetting (200°C) ²	60/20	%	IEC 60540
Stripping Angle	180	°	
Stripping Force ³			
EPR : 23°C	1.5 - 2.0	kN/m	

XPLPE : 23°C	0.7 - 1.0	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)	220	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (135°C, 168 hr)	-10	%	ASTM D471
Change in Ultimate Elongation (135°C, 168 hr)	-30	%	ASTM D471
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	
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		
3.	50 mm/min		

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