

Horda E8472

Polyethylene
Horda Cable Compounds

Message:

E8472 is a crosslinkable, strippable semiconductive compound, designed for peroxide cured cables with XLPE and EPR insulation and for use in both dry and steam curing processes.E8472 have:
good compatibility with copper and aluminium conductor
excellent surface smoothness
E8472 meets the requirements as below, when optimal processing extrusion and end testing procedure are used:
AEIC-CS 8 (latest edition)
BS 6622
IEC 60502
NF C 33-223
NEMA WC 7-1996/IC EA S-95-658

General Information			
Features	Semi-conductive		
	Crosslinkable		
	Excellent appearance		
Uses	Wire and cable applications		
Agency Ratings	AEIC CS8		
	BS 6622		
	ICEA S-95-658		
	IEC 60502		
	NEMA WC-7		
	NF C 33-223		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ASTM D1928
Mooney Viscosity (ML 1+4, 121°C)	27	MU	ISO 289
Moisture ¹		ppm	
Thermoset ² (200°C)	70	%	IEC 540
Stripping Angle	180	°	
Stripping Force - EPR ³ (23°C)	1.3 - 1.5	kN/m	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80 - 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)	-10	%	ASTM D573
Change in Ultimate Elongation in Air (135°C, 168 hr)	-35	%	ASTM D573
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	< 60.0	°C	
Hopper Temperature	23.0	°C	
Cylinder Zone 1 Temp.	60.0 - 100	°C	
Cylinder Zone 2 Temp.	60.0 - 100	°C	
Cylinder Zone 3 Temp.	60.0 - 100	°C	
Cylinder Zone 4 Temp.	60.0 - 100	°C	
Cylinder Zone 5 Temp.	60.0 - 100	°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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