

Horda E6595

Polyethylene Copolymer

Horda Cable Compounds

Message:

E6595 is a crosslinkable semiconductive compound, based on ethylene copolymer compound, designed for conductor screen and insulation shield applications in XLPE and EPDM rubber insulated cables with bonded shield.E6595 have:
good compatibility with copper and aluminium conductor
excellent surface smoothness good stability with high temperature curing
E6595 meets the requirements as below, when optimal processing extrusion and end testing procedure are used:
AIEC-CS 8 (latest edition)
AIEC-CS 7/93
BS 6622
IEC 60502
IEC 60840
SS 424 14 16, SS 424 14 17 (HD 620 S1:1996)
DIN: VDE 0276 Teil 620:1996-12
DIN: VDE 0263

General Information			
Features	Semi-conductive		
	Copolymer		
	Crosslinkable		
Uses	Wire and cable applications		
Agency Ratings	AIEC CS7-93		
	AIEC CS8		
	BS 6622		
	DIN VDE 0263		
	DIN VDE 0276-620		
	HD 620 S1		
	IEC 60502		
	IEC 60840		
	SS 424, 14, 16		
	SS 424, 14, 17		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ASTM D1928
Mooney Viscosity (ML 1+4, 121°C)	27	MU	ISO 289
Moisture ¹		ppm	
Thermoset ² (200°C)	30 - 40	%	IEC 540
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85 - 90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength	15.0	MPa	ASTM D638
Tensile Elongation (Break)	220	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	-5.0	%	ASTM D573
Change in Ultimate Elongation in Air (135°C, 168 hr)	-20	%	ASTM D573
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C	< 1.0E+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	40.0 - 60.0	°C	
Cylinder Zone 1 Temp.	80.0 - 120	°C	
Cylinder Zone 2 Temp.	80.0 - 120	°C	
Cylinder Zone 3 Temp.	80.0 - 120	°C	
Cylinder Zone 4 Temp.	80.0 - 120	°C	
Cylinder Zone 5 Temp.	80.0 - 120	°C	
Die Temperature	100 - 125	°C	
Extrusion instructions			
Neck Temperature: 100 to 125°C Head Temperature: 100 to 125°C			
NOTE			
1.	QAHC-10420 (Karl Fischer method)		
2.	20 N/cm ²		

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