

E6595

Bonded Semiconductive Shielding and Conductor screen

Description

E6595 is a crosslinkable semiconductive compound based on ethylene copolymer compound, designed for conductor screen and insulation shield applications in XLPE and EPDM insulated cables with bonded shield.

E6595

- Have good compatibility with copper and aluminium conductor
- Excellent surface smoothness
- Good scorch resistance
- Good stability with high temperature curing

Specifications

E6595 meets the requirements as below, when optimal processing extrusion and end testing procedure are used:

AEIC- CS 8	IEC 60840
AEIC- CS 7/ 93	SS 424 14 16, SS 424 14 17 (HD 620 S1:1996)
BS 6622	DIN: VDE 0276 Teil 620:1996-12
IEC 60502	DIN: VDE 0263

Typical physical properties

<u>Property</u>	<u>Test Method</u>	<u>Unit</u>	<u>Typical Value</u>
Density at 23°C	ASTM D1928	g/cm ³	1,14
Hardness Shore A	ASTM D2240	Shore A	85 – 90
Hot set 200°C, 20 N/cm ²	IEC 540	%	30 - 40
Moisture	QAHC-10420 (Karl Fischer method)	PPM	< 600
Tensile strength	ASTM D638	MPa	15
Elongation	ASTM D638	%	220
Mooney viscosity	ISO 289	ML (1+4) 121 °C	34 Mooney units
Change after ageing 1 week at 135°C			
Tensile strength	ASTM D638	%	-5
Elongation	ASTM D638	%	-20

Typical electrical properties

DC Volume Resistivity of Cable

at	23°C	ASTM D257	Ohm cm	< 100
	90°C	ASTM D257	Ohm cm	< 1000
	120°C	ASTM D257	Ohm cm	< 1000

Processing conditions

E6595 provides an excellent surface finish and outstanding output rates, when processing conditions are optimised for the actual processing equipment.

Dehumidified hopper drying at 60°C for up to five hours, can be used to remove moisture and give excellent extrusion.

Actual conditions will vary according to the equipment used, but as a guide we recommend following extrusion conditions:

Screw cooling	50 - 70 °C
Temperature cylinder	80 - 120 °C
Head	115 - 125 °C

Delivery

Form:	Pellets
Package:	500 kg cardboard boxes (other package is available upon request)

Safety

Safety data sheet available upon request.

Our information is based on careful analysis and is reliable but is to be considered only as guiding, not binding information.



Horda Cable Compounds

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