

# Cable Compounds

## Bonded semi conductive thermoset conductor & insulation screen

**E6595** is a conductive thermoset medium voltage compound intended as bonded insulation screen onto XLPE and bonded conductor and insulation screen onto EPR. It has excellent surface smoothness.

**E6595** have:

- good compatibility with copper and aluminium conductor
- excellent surface smoothness
- good stability with high temperature curing

### Specifications

**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

### Typical physical properties:

Property	Test method	Unit	Typical Value
Density at 23°C	ASTM D1928	g/cm <sup>3</sup>	1,14
Hardness Shore A	ASTM D2240	Shore A	85-90
Hot set 200°C, 20 N/cm <sup>2</sup>	IEC 540	%	30-40
Moisture	QAHC-10420, (Karl Fischer method)	PPM	< 600
Tensile strength	ASTM D638	MPa	15
Elongation	ASTM D638	%	220
Mooney viscosity ML (1+4) @ 121°C	ISO 289	MU	27

### Typical electrical properties:

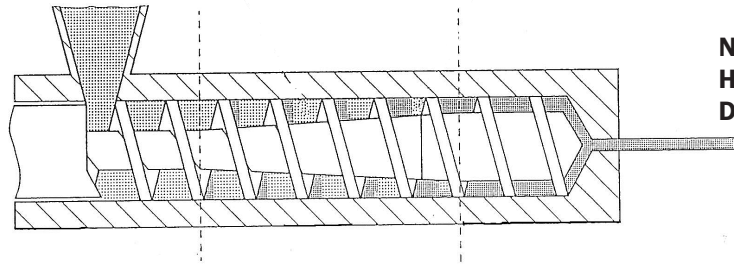
Property	Test method	Unit	Typical Value
DC Volume Resistivity of Cable at 23°C	ASTM D257	Ohm cm	< 200
DC Volume Resistivity of Cable at 90°C	ASTM D257	Ohm cm	< 1000
DC Volume Resistivity of Cable at 120°C	ASTM D257	Ohm cm	< 1000

### Processing conditions

**E6595** provides an excellent surface finish and outstanding output rates, when processing conditions are optimised for the actual processing equipment. Actual conditions will vary according to the equipment used, but as a guide we recommend following extrusion conditions:

**Desiccant dryer:** < 60 °C

**Hopper:** -



**Neck:** 110-125°C

**Head:** 110-125°C

**Die:** 110-125°C

**Screw cooling:** -°C

**Comments:** -

### Extruder

**Hopper inlet:** 40-60°C

**Barrel:** 80-120°C

### Delivery

Form: Pellets

Package: 600 kg octabins

### Storage/Handling

The material is packed, secured and sealed fulfilling the stated properties above. The material shall be stored in sealed container and under dry and tempered conditions to obtain sustainable performance.

### Safety

Safety data sheet is available upon request.

The data sheet should be considered as guidelines, not binding information.

Issue date 2016-03-31. We reserve the right to make changes without prior notification.

