

E8551

Strippable Semiconductive Shielding

Description

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

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	1,18
Hardness Shore A	ASTM D2240	Shore A	85 – 90
Hot set 200°C, 20 N/cm ²	IEC 540	%	60/20
Moisture	QAHC-10420 (Karl Fischer method)	PPM	< 800
Tensile strength	ASTM D638	MPa	11
Elongation	ASTM D638	%	220
Change after ageing 1 week at 135°C			
Tensile strength	ASTM D638	%	-10
Elongation	ASTM D638	%	-30

Typical electrical properties

DC Volume Resistivity of Cable

at	23°C	ASTM D257	Ohm cm	< 500
	90°C	ASTM D257	Ohm cm	< 1000
	120°C	ASTM D257	Ohm cm	< 1000

Insulation shield adhesion

Stripping angle	degrees	90
Stripping force	N/cm	10 - 18

Processing conditions

E 8551 provides an excellent surface finish, 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:

Screw cooling	40 - 50 °C
Temperature cylinder	60 - 110 °C
Head	100 - 130 °C

(Drying, when necessary, should be made at maximum 40°C)

Delivery

Form:	Pellets
Package:	650 kg cardboard boxes

Safety

At temperatures above 180°C acetic acid may be formed. For details, we refer to a special 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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