



Strippable semiconductive shielding

Description

E8900 is a crosslinkable, strippable semiconductive compound, designed for both XLPE and EPDM rubber insulated cables and for use in both dry and steam curing processes.

Specifications

E8900 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

Property	Test Method	Unit	Typical Value
Density at 23°C	ASTM D1928	g/cm ³	1,16 - 1,18
Hardness Shore A	ASTM D2240	Shore A	85-90
Hot set 200°C, 20 N/cm ²	IEC 540	%	Max 100
Hot set 200°C, 20 N/cm ²	IEC 540 (PD)	%	Max 5
Moisture	QAHC-10420 (Karl Fischer method)	PPM	< 800
Tensile strength	ASTM D638	MPa	11
Elongation	ASTM D638	%	250
Mooney viscosity ML (1+4) @ 121°C	ISO 289	MU	14-22
Rheometer Göttfert arc 0,2° 195° ML	ISO 6502:1991	Nm	0,033 – 0,055
Rheometer Göttfert arc 0,2° 195° MH	ISO 6502:1991	Nm	0,200 – 0,341
Rheometer Göttfert arc 0,2° 195° T90	ISO 6502:1991	Min	1,42-1,62

Change after ageing 1 week at 135°C

Tensile strength	ASTM D638	%	-5
Elongation	ASTM D638	%	-50

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

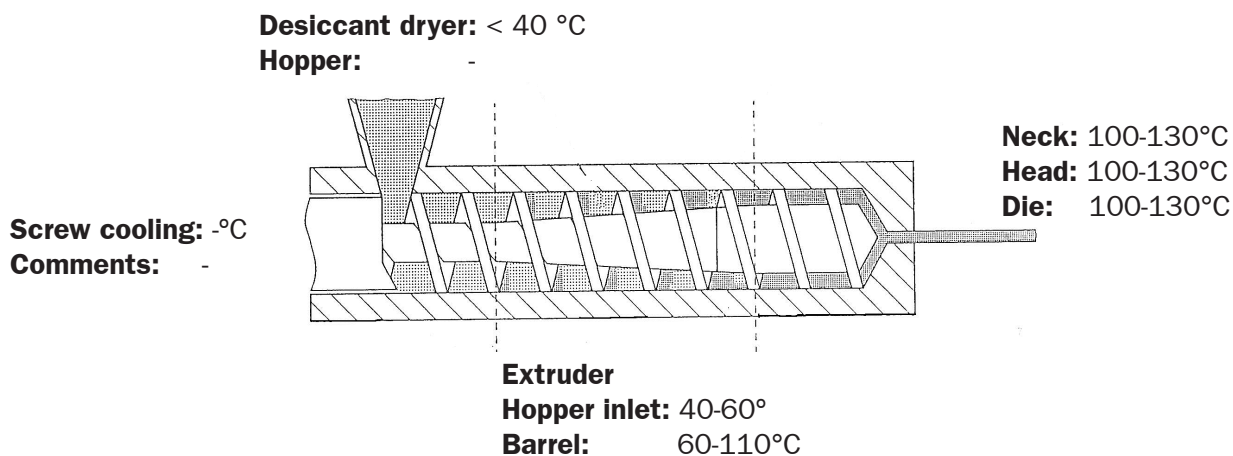
Insulation shield adhesion (typical values)

Stripping angle			180°
Stripping force, XLPE, 23°C	(50mm/min)	N/cm	13-17
Stripping force, EPR, 23°C	(50mm/min)	N/cm	23-25

Processing conditions

E8900 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:



Delivery

Form: Pellets
Package: 600 kg cardboard boxes

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

At temperatures above 180°C acetic acid may be formed. Safety data sheet is available upon request.

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

Issue date 2010-08-27. We reserve the right to make changes without prior notification.



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