

Strippable semiconductive shielding

Description

E8572 is a crosslinkable, strippable semiconductive compound, designed for XLPE insulated cables and use in both dry and steam curing processes.

Specifications

E8572 meets the requirements as below, when optimal processing extrusion and end testing procedure are used:

AEIC- CS 8 (latest edition)
 BS 6622
 IECA: 60502
 NF C 33-223
 NEMA WC 7-1996/IECA S-95-658

Typical physical properties

Property	Test Method	Unit	Typical Value
Density at 23°C	ASTM D1928	g/cm ³	1,23
Hardness Shore A	ASTM D2240	Shore A	85-90
Hot set 200°C, 20N/cm ²		%	60/20
Moisture	QAHC-10420 (Karl Fischer method)	PPM	< 800
Tensile strength	ASTM D638	MPa	12
Elongation	ASTM D638	%	250
Mooney viscosity ML (1+4) @ 121°C ISO 289		MU	21

Change after ageing 1 week at 135°C

Tensile strength	ASTM D638	%	-10
Elongation	ASTM D638	%	-40

Typical electrical properties

DC Volume Resistivity of Cable

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

Insulation shield adhesion (typical value)

Stripping angle			180°
Stripping force XLPE, 23°C	(50mm/min)	N/cm	15 – 18
Stripping force EPR, 23°C	(50mm/min)	N/cm	26 – 30

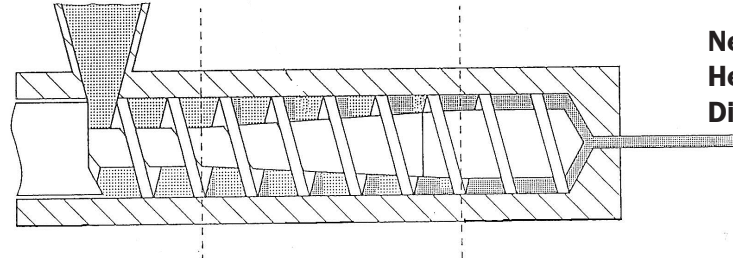
Processing conditions

E8572 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:

Desiccant dryer: < 40 °C

Hopper: -



Neck: 100-130°C

Head: 100-130°C

Die: 100-130°C

Screw cooling: °C

Comments: -

Extruder

Hopper inlet: RT (room temperature)

Barrel: 60-110 °C

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

Safety data sheet is available upon request.

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

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