Strippable semiconductive shielding

E8462 is a conductive thermoset low viscosity compound intended for XLPE and EPR cable with low to medium strip force. Can be used in both steam cure and dry cure process.

Specifications

E8462 meets the requirements as below, when optimal processing extrusion and end testing procedure are used:

- AEIC CS8
- BS 6622
- HD 620-S2
- IEC 60502-2
- NF C33-223
- DIN VDE 0276-320
- SS 424 14 16

Typical physical properties:

Property	Test method	Unit	Typical Value
Density at 23 °C	ASTM D1928	g/cm³	1,26
Hardness Shore A	ASTM D2240	Shore A	85-90
Hot set 200°C, 20 N/cm²	IEC 60811-507	%	35/5
Moisture	QAHC-10420, (Karl Fischer method)	PPM	< 800
Tensile strength	ASTM D638	MPa	12
Elongation	ASTM D638	%	250
Mooney viscosity ML (1+4) at 121°C	ISO 289	MU	22

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

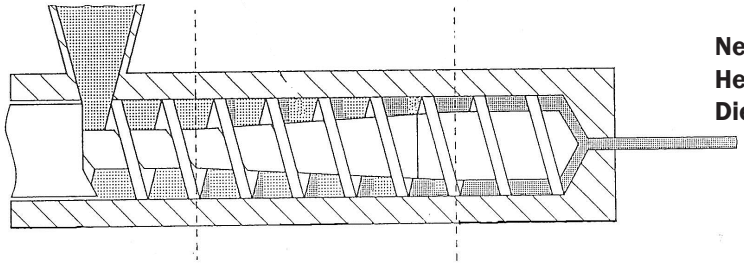
Insulation shield adhesion:

Property	Test method	Unit	Typical Value
Stripping angle/speed	180°/(50 mm/min)		
Stripping force, XLPE, 23°C		N/cm	8-12
Stripping force, EPR, 23°C		N/cm	10-15

Processing conditions

E8462 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: 1250 kg octabins or 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

At temperatures above 230 °C there is a risk that acetic acid may be formed.
It is recommended to keep process temperature <260 °C.

Safety data sheet is available upon request.

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