

# Cable Compounds

## Easy strippable semi conductive thermoset shielding, YLS

**E8415** is a conductive thermoset compound intended for EPR cable with medium strip force. Can also be used on XLPE with low strip force. Can be used in both steam cure and dry cure process.

### Specifications

**E8415** meets the requirements as below, when optimal processing extrusion and end testing procedure are used:

- AEIC CS8
- BS 6622
- IEC 60502-2
- NF C33-223
- SS 424 14 16

### Typical physical properties:

Property	Test method	Unit	Typical Value
Density at 23 °C	ASTM D1928	g/cm <sup>3</sup>	1,19
Hardness Shore A	ASTM D2240	Shore A	85-90
Hot set 200°C, 20 N/cm <sup>2</sup>	IEC 60811-507	%	35/5
Moisture	QAHC-10420, (Karl Fischer method)	PPM	< 800
Tensile strength	ASTM D638	MPa	11
Elongation	ASTM D638	%	270
Mooney viscosity ML (1+4) at 121°C	ISO 289	MU	30
Rheometer Göttfert arc 0,2° 195° ML	ISO 6502:1991	Nm	0,085
Rheometer Göttfert arc 0,2° 195° MH	ISO 6502:1991	Nm	0,345
Rheometer Göttfert arc 0,2° 195° T90	ISO 6502:1991	Min	1,17

### Typical electrical properties:

Property	Test method	Unit	Typical Value
DC Volume Resistivity of Cable at 23°C	ASTM D257	Ohm cm	< 400
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

### Insulation shield adhesion:

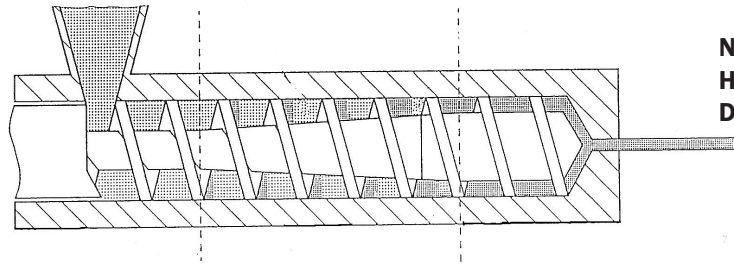
Property	Unit	Typical Value
Stripping angle/speed	180°/(50 mm/min)	
Stripping force, XLPE, 23°C (50 mm/min)	N/cm	9-10
Stripping force, EPR, 23°C (50 mm/min)	N/cm	15-20

### Processing conditions

**E8415** 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:** 40-60 °C

**Barrel:** 60-110 °C

### Delivery

Form: Pellets

Package: 600 kg octabin

### 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.

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

Issue date 2020-11-02. We reserve the right to make changes without prior notification.

