



SHAKUN POLYMERS PRIVATE LIMITED



SP-SCXL-8888-H

Semi-conductive cross-linkable compound

Description

SP-SCXL-8888-H is a Semi Conducting cross-linkable conductor shielding & insulation shielding compound for medium voltage power cables up to 36 kV, with high resistance to scorch, easy to process and has low volume resistivity.

Specification

SP-SCXL-8888-H meets the requirements of the following standards:

- IEC: 60502-2
- AEIC: CS8
- BS: 6622
- NFC 33-223
- HD 620
- ICEA: S-93-639 and NEMA WC 74
- BS7835

Application

SP-SCXL-8888-H is designed for semi-conductive shielding in Medium voltage cables, it can be used as conductor shielding and insulation shielding for bonded cable constructions and as conductor shielding for strippable cable constructions

Physical Properties

Properties	Test Method	Unit	Typical Value
Density at 27 °C	ASTM D 1505	g/cm ³	1.13
Tensile Strength	ASTM D 638	MPa	14
Elongation at break	ASTM D 638	%	200
Tensile Properties after ageing 168 hrs. at 135°C	ASTM D 638		
Retention in Tensile strength		%	>90
Retention in Elongation		%	>80
Moisture Content	Karl Fischer	ppm	<500
DC Volume Resistivity	ASTM D 257		
- at 23 °C		Ohm.cm	<100
- at 90 °C		Ohm.cm	<1000

*Tensile Properties on 1 mm Extruded Tape

*Data should not be used for specification work

Processing

SP-SCXL-8888-H is formulated to be easily extrudable using conventional PE/PVC extruders (L/D 20-25 /1 and CR 1.5-2.5:1). Specific recommendation for the processing conditions can be determined only when the application and the equipment design are known.

as a guideline the following temperature profile can be used:

Zones	Zone 1: (Feeding Zone)	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
Temp, °C	70 - 80	85 - 90	95 - 100	100-105	105-115	115-120	115-120	115-120

Screen Mesh recommended is 20 / 60 / 20 or 20 / 80 /20

It is therefore recommended that the compound be thoroughly dried prior to use, usually 4 hours in hopper drier at 60°C.

Packaging

SP-SCXL-8888-H is supplied in the form of free flowing pellets in Jumbo Boxes with a net weight of 600 Kgs./ 700 Kgs.

Storage & shelf life

Should be stored at room temperature 15-40°C in original packing unopened condition without exposing to direct sunlight, shelf life is 09 months from the manufacturing date.

Safety

SP-SCXL-8888-H is not classified as a dangerous material.

Care should be taking to avoid inhalation of the dust which may develop while transferring of the material which may cause irritation of respiratory system to ensure health and safety MSDS is available on request.

Disclaimer

The product can be used only for the application specified here above. It is the customer responsibility to inspect and test this product to satisfy its suitability to customer's particular purpose. No liability can be accepted regarding the use of our product in conjunction with other materials. No warranties shall be offered which extend beyond the description contained here above. The above mentioned information relates exclusively to our products when not used in conjunction with any third party materials.

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