



SHAKUN POLYMERS PRIVATE LIMITED

SP-SCXL-7777SEMI-CONDUCTIVE CROSS-LINKABLE INSULATION SHIELDING COMPOUND**Description**

SP-SCXL-7777 is a Semi Conducting cross-linkable insulation shielding strippable compound for medium voltage power cables. Further the material has very high resistance to scorch. It is easy to process and has low volume resistivity.

Specification

SP-SCXL-7777 meets the requirement of:

- IEC 60502
- BS 6622

Properties

<i>Properties</i>	<i>Test Method</i>	<i>Unit</i>	<i>Typical Value</i>
Density at 27 °C	ASTM D 1505	g/cm ³	1.16
Tensile Strength	IEC 60811-1-1	MPa	13
Elongation at break	IEC 60811-1-1	%	260
Variation in Tensile Properties After ageing at 135°C for 168 hrs.			
- Tensile strength	IEC 60811-1-2	%	+8
- Elongation	IEC 60811-1-2	%	-15
Stripping Force	SPL	N	10-40
Hot Set Elongation, at 200°C for 15 min. at 0.2 N/mm ² load	IEC 60811-2-1	%	70
Moisture Content	SPL	ppm	<400
DC Volume Resistivity			
- at 23 °C	ASTM D 257	ohm-cm	<100
- at 90 °C		ohm-cm	<500

*Tensile Properties on 1 mm moulded sheet

*Data should not be used for specification work

2

Processing

Semiconducting SP-SCXL-7777 has been formulated to be easily extrudable using conventional polyethylene/PVC extrusion lines. For optimum extrusion result with SP-SCXL-7777 use melt extrusion temperature (Barrel) in the range of 90 - 105 °C, Triple Cross Head 110 °C & Connecting Flanges 110 °C.

Specific processing condition can be determined only by trials on individual equipment.

Semiconducting SP-SCXL-7777 absorbs moisture, which can result in porosity in the extrudate. It is therefore recommended that the compound be thoroughly dried prior to use, usually 2-4 hours in hopper drier at 40°C.

Packaging

SP-SCXL-7777 is available in the form of free flowing pellets and supplied in Jumbo Boxes with a net content of 600 Kgs./ 700 Kgs.

Storage & shelf life

The product/compound should remain in

- Sealed condition
- Without exposing to direct sunlight and temperature not exceeding 35°C

Shelf life of the compound is 12 months from the date of manufacture.

Product alteration may occur due to extended period of storage.

Shakun accepts no liability of any kind in case the above mentioned storage conditions are not fulfilled.

Safety

SP-SCXL-7777 is not classified as a dangerous preparation.

The product is supplied in form of pellets of about 2 – 3 mm in size and can be readily handled with commercially available equipment. All handling and transport of the product may generate some dust and fines, which constitute a potential risk for dust explosion. Therefore, all instruments in the system should be properly grounded. Properly designed equipment and good storage will reduce the potential risk. Please, check and follow local disposal regulations!

Inhalation of any type of dust may irritate the air passages and should be avoided. For hot products: immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat.

In case of adverse exposure to melting products formed at elevated temperatures, immediately remove the affected victim from exposure.

Sweep up spilled granules and place in suitable containers for recycle or disposal. Consult an expert on disposal or recovered material and ensure conformity to local disposal regulations.

The product is intended for industrial use only. A Material Safety Datasheet is available on request. Please contact our Technical Team at SHAKUN POLYMERS PRIVATE LTD., for more details on various aspects of safety, recovery and disposal of the product.

This information is to the best of our knowledge accurate but all recommendations or suggestions are made without guarantee or legal liabilities since the conditions of use are beyond our control. The typical values given do not constitute specification for the product but represent typical analytical values.

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