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Polymer
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FRTEK®

SPL-FRLS-TM53 UV RoHS Jacketing/Sheathing Compound

DESCRIPTION

SPL-FRLS-TM53 UV RoHS is a Low Smoke, Low Halogen, Flame Retardant, Oil resistance, UV stabilize, **RoHS** Compound for jacketing / sheathing application in a wide variety of Heat Resistant cables and is formulated with a high quality resin with special plasticizers, stabilizers.

SPECIFICATION

Cables manufactured with **SPL-FRLS-TM53 UV RoHS** according to standard technology meet EN 50290-2-22 Type TM53 Specifications.

Properties	Test Method	Unit	Typical Value
Density	ASTM D 792	g/cm ³	1.46
Durometer Hardness	ASTM D 2240	Shore A	87
Tensile Strength	IEC 60811-1-1	MPa	17
Elongation	IEC 60811-1-1	%	300
Variation in Tensile Properties after Heat Ageing at 135°C / 14 days			
Tensile Strength	IEC 60811-1-2	%	-5
Elongation	IEC 60811-1-2	%	-7
Hot Deformation Test 90°C, 4 Hrs.	IEC 60811-3-1	%	32
Limiting Oxygen Index	ASTM D 2863	%	30
Temperature index	ASTM D 2863	° C	270
Smoke Density Rating	ASTM D 2843	%	52
Oil Resistance in ASTM Oil No. 2 at 70°C for 4 Hrs.			
% variation in Tensile strength	IEC 60811-2-1	%	-20
% variation in Elongation		%	-30
Thermal Stability	IEC 60811-3-2	Minutes	280
Loss of Mass at 115°C for 14 days	IEC 60811-3-2	mg/cm ²	0.5
Halogen Acid Gas Generation	IEC 60754-1	%	16

* **Tensile Properties on 1mm Extruded Tape**

* Data should not be used for specification work

PROCESSING TECHNIQUES

SPL-FRLS-TM53 UV RoHS can be processed on any good extruder designed for PVC at temperatures in the range of 140°C - 180°C. The screw must have a good homogenizing capacity.

COLORABILITY

SPL-FRLS-TM53 UV RoHS is a Colorable Compound and no detrimental effects on properties in presence of masterbatch colours. We suggest drying masterbatch before use.



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PACKAGING

SPL-FRLS-TM53 UV RoHS is available in the form of free flowing pellets and supplied in bags of moisture resistant material with a net content of 30 Kgs. Material also available in Jumbo Boxes with a net content of 900 Kgs.

STORAGE & SHELF LIFE

The product/compound should remain in

- Sealed condition
- Without exposing to direct sunlight and temperature not exceeding 45°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

SPL-FRLS-TM53 UV RoHS is not classified as a dangerous preparation.

The product is supplied in form of pellets of about 3 - 4 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 of 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.

SHAKUN POLYMERS PRIVATE LIMITED

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