



SHAKUN POLYMERS LIMITED



SPL-FRLS-31

LOW SMOKE LOW HALOGEN FLAME RETARDANT COMPOUND

Description

SPL-FRLS-31 is a Low Smoke, Low Halogen, Lead free, ROHS Compliant, Flame Retardant Compound for Insulation / Jacketing applications in a wide variety of cables. **SPL-FRLS-31** is formulated with a high quality resin with special plasticizer, stabilizers and flame retardant chemicals. Smoke and HCL absorbers are added so that emission of smoke and HCL are limited to low levels when the cable burns.

Specification

Cables manufactured with **SPL-FRLS-31** according to standard technology meet IEC 60502 ST2 and IS : 5831 applications.

Properties

Properties	Test Method	Unit	Typical Value
Density	ASTM D 792	g/cm ³	1.55
Durometer Hardness	ASTM D 2240	Shore A	90
Tensile Strength	ASTM D 638	MPa	15
Elongation	ASTM D 638	%	230
Variation of Tensile Properties after Heat Ageing at 100 ± 2°C, 7 Days			
Tensile Strength	ASTM D 638	%	4
Elongation	ASTM D 638	%	-10
Limiting Oxygen Index	ASTM D 2863	%	32
Temperature index	ASTM D 2863	°C	265
Halogen Acid Gas Generation	IEC 60754-1	%	17
Smoke Density Rating	ASTM D 2843	%	< 55
Hot Deformation Test 90°C, 6 Hrs	IEC 811- 3-1	%	40
Loss of Mass @ 100 ± 2°C, 7 Days	IEC 811-3-2	mg/cm ²	1.5
Volume Resistivity @ 25± 2°C	ASTM D 257	ohm-cm	1x10 ¹⁴
Thermal Stability @ 200 + 0.5°C	IS : 5831	Minutes	160

* Press Sheet Conditions : 180°C, 10 min, 200kg / cm²

* Data should not be used for specification work

Processing Techniques

SPL-FRLS-31 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-31 is a Colorable Compound and no detrimental effects on properties in presence of masterbatch colours. We suggest to dry masterbatch before use.

Packaging

SPL-FRLS-31 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.

Safety

SPL-FRLS-31 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 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 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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