



SHAKUN POLYMERS LIMITED

SPL-ZHFR-BF 30



ZERO-HALOGEN LOW SMOKE FLAME RETARDANT BEDDING COMPOUND

Description

SPL-ZHFR-BF30 is a Zero Halogen, Low Smoke, Highly Flame Retardant Thermoplastic compound, polyolefin based for bedding application in power cables.

Specifications

Cables manufactured with **SPL-ZHFR-BF30** according to standard technology meet industrial cable specifications as per BS 6724 for bedding materials.

Features

SPL-ZHFR-BF30 consists of special thermoplastic polymers, inorganic filler and other additives. It shows good processing and physical properties.

Properties

<i>Property</i>	<i>Test Method</i>	<i>Unit</i>	<i>Typical Value</i>
Density at 27°C	ASTM D 792	g/cm ³	1.70
Mooney Viscosity ML (1 + 4) 140°C	ASTM D 1646	-	32
Hardness	ASTM D 2240	Shore D	36
Tensile Strength at Break (50 mm/min)	ASTM D 638	MPa	>4
Elongation at Break (50 mm/min)	ASTM D 638	%	>300
Limiting Oxygen Index	ASTM D 2863	% O ₂	>50
Smoke Density Rating	ASTM D 2843	%	< 20
Halogen Acid Gas Generation	IEC 60754-1	%	< 0.5

*Tensile Properties on 1 mm Extruded Tape

* Data should not be used for specification work

Processing Techniques

We expect that **SPL-ZHFR-BF30** can be processed in a wide range of commercially available fabrication equipment.

In general, it is recommended that this product be processed using small size L/D and C/R rather than regular polyethylene screw. The required extrusion temperatures of **SPL-ZHFR-BF30** is in the range of 120 – 170°C. Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Be cautious! Do not overheat more than 180°C. Predrying of compound in dehumidifying drier for 4 hours at 70°C is recommended to obtain a cable having smooth and glossy appearance.

Colorability

SPL-ZHFR-BF30 is a Colorable Compound.

Packaging

SPL-ZHFR-BF30 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 1000 Kgs.

Safety

SPL-ZHFR-BF30 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 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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