



SHAKUN POLYMERS PRIVATE LIMITED



SPL-ZHFR-4800H

ZERO-HALOGEN LOW SMOKE FLAME RETARDANT COMPOUND

Description

SPL-ZHFR-4800H is a Zero Halogen, Low Smoke, Flame Retardant, Thermoplastic RoHS compliance polyolefin based Compound for inner sheath / bedding of various cables and it can also be used for outer sheath of small diameter cables (<15mm).

Specifications

Cables manufactured with **SPL-ZHFR-4800H** according to standard technology meet industrial cable specifications as per BS 6724 for bedding materials.

Features

SPL-ZHFR-4800H 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	1.54
Melt Index at 21.6 kg & 160°C	ASTM D 1238	g/10min	7
Hardness	ASTM D 2240	Shore D	53
Tensile Strength at break	IEC 60811-1-1	MPa	10
Elongation at break	IEC 60811-1-1	%	180
Limiting Oxygen Index	ASTM D 2863	% O ₂	37
Temperature Index	ASTM D 2863	° C	300
Smoke Density Rating	ASTM D 2843	%	5
Halogen Acid Gas Generation	IEC 60754-1	%	Nil
Test on Gases Evolved During Combustion pH	IEC 60754-2	pH	5.4
Conductivity		μS / mm	1.7

*Tensile Properties on 1 mm Extruded Tape

* Data should not be used for specification work

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Processing Techniques

SPL-ZHFR-4800H can be processed in a wide range of commercially available fabrication equipment. In general, it is recommended that this product be processed using low C/R screw rather than regular polyethylene screw. The recommended extrusion temperature of **SPL-ZHFR-4800H** 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-4800H is a Colorable Compound with PE/EVA base master batch and we suggest to dry the colour master before use at 70 °C for 2 hrs.

Packaging

SPL-ZHFR-4800H 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 950 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-ZHFR-4800H 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 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.

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