



SHAKUN POLYMERS LIMITED

SPL-ZHFR-H8801

ZERO-HALOGEN LOW SMOKE FLAME RETARDANT COMPOUND**Description**

SPL-ZHFR-H8801 is a Halogen free, Low Smoke, Flame Retardant Thermoplastic high thermal performance & Crack resistance, Oil resistance Compound, polyolefin based for sheathing / jacketing applications for cables having large diameters armoured / Unarmoured. Further the compound is UV Stabilized.

Features

SPL-ZHFR-H8801 consists of special thermoplastic polymers, inorganic filler and other additives. It shows good processing and physical properties. **SPL-ZHFR-H8801** provides following properties

- Good abrasion resistance
- Good oil resistance
- Long-term reliability & UV stability
- Very good flame retardancy and low smoke

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	1.42
Melt Index at 21.6 kg & 160°C	ASTM D 1238	g/10min	2
Hardness	ASTM D 2240	Shore D	50
Tear Strength	BS 6469	N/mm	9.0
Tear Strength @ 65°C	Internal	N/mm	5.6
Tensile Strength at Break	ASTM D 638	MPa	14
Elongation at Break	ASTM D 638	%	200
Change of Tensile Properties after heat ageing (7 days at 100°C) Variation in Tensile strength Variation in Elongation	ASTM D 638	%	+6 -10
Change of Tensile Properties after Oil ageing in ASTM Oil No.2 (24 hours at 100°C) Variation in Tensile strength Variation in Elongation	ASTM D 638	%	-21 -4
Change of Tensile Properties after Oil ageing in ASTM Oil No.2 (96 hours at 100°C) Variation in Tensile strength Variation in Elongation	ASTM D 638	%	-32 +18
Change of Tensile Properties after Oil ageing in ASTM Oil No.2 (7 days at 23°C) Variation in Tensile strength Variation in Elongation	ASTM D 638	%	-8 -1
Retention of Tensile Properties after UV-Exposure for 600 Hours Tensile Strength Elongation	ASTM G 53	%	> 70 > 60
Limiting Oxygen Index	ASTM D 2863	% O ₂	36
Temperature Index	ASTM D 2863	°C	320
Smoke Density Rating	ASTM D 2843	%	8
Halogen Acid Gas Generation	IEC 60754-1	%	Nil
Toxicity Index	NES 713	-	2.2
Test on gases evolved during combustion pH.	IEC 60754-2	pH	5.5
Conductivity		μs / mm	1.8
Pressure Test at 90°C	IEC 60811-3-1	%	22
Pressure Test at 100°C	IEC 60811-3-1	%	26

* Tensile Properties on 1mm Extruded Tape

* Data should not be used for specification work

Processing Techniques

SPL-ZHFR-H8801 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 required extrusion temperature of **SPL-ZHFR-H8801** is in the range of 130 – 200°C. Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Predrying of compound in dehumidifying drier for 2 hours at 70°C is recommended to obtain a cable having smooth and glossy appearance.

Colorability

SPL-ZHFR-H8801 is a Colorable Compound with PE/EVA base master batch.

Packaging

SPL-ZHFR-H8801 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-ZHFR-H8801 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 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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