



SHAKUN POLYMERS PRIVATE LIMITED



SPL-ZHFR-EXP-555 (Natural) FLAME RETARDANT PE COMPOUND

Description

SPL-ZHFR-EXP-555 (Natural) is a Flame Retardant PE based Compound meeting requirements of type ST3 & ST7 as per IEC 60502.

Properties

<i>Property</i>	<i>Test Method</i>	<i>Unit</i>	<i>Typical Value</i>
Density	ASTM D 792	g/cm ³	1.40
MFI @ 190°C, 21.6kg	ASTM D 1238	g/10 min	5
Durometer Hardness	ASTM D 2240	Shore D	56
Tensile Strength	IEC 60811-1-1	MPa	15
Elongation	IEC 60811-1-1	%	360
Variation in Tensile Properties after Heat Ageing at 110 °C for 10 days	IEC 60811-1-2	%	+ 12
Tensile Strength	IEC 60811-1-2	%	-14
Elongation	IEC 60811-1-2	%	-14
Variation in Tensile Properties after Oil ageing in IRM 902 Oil (6 hours at 70°C)	IEC 60811-2-1	%	-11
- Tensile strength			
- Elongation			+12
Halogen Acid Gas Generation	IEC 60754-1	%	Nil
Limiting Oxygen Index	ASTM D 2863	%	30
Smoke Density Rating	ASTM D 2843	%	8
Test on Gases Evolved During Combustion	IEC 60754-2		
pH		pH	5.6
Conductivity		µs / mm	1.5
Volume resistivity@ 27 °C	ASTM D 257	ohms - cm	1 X 10 ¹⁵

*Tensile Properties on 1mm Extruded Tape

* Data should not be used for specification work

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Processing Techniques

It is recommended that this product be processed using low C/R screw. However PE screw can also use for small diameter cables. The recommended extrusion temperature of the same 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 2 hours at 70°C is recommended to obtain a cable having smooth and glossy appearance.

Colorability

SPL-ZHFR-EXP-555 (Natural) is a Colorable Compound. We suggest drying the master batch before use.

Packaging

SPL-ZHFR-EXP-555 (Natural) is available in the form of free flowing pellets and supplied in bags of moisture resistant material with a net content of 25 Kgs. Material also available in Jumbo Boxes with a net content of 850 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-EXP-555 (Natural) 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 at 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 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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