



# SHAKUN POLYMERS LIMITED

SPL-GP-FR



## FLAME RETARDANT PVC COMPOUND

### Description

**SPL-GP-FR** is a High Flame Retardant PVC Compound for Insulation / Jacketing applications in a wide variety of cables. **SPL-GP-FR** is formulated with a high quality resin with special plastiser, stabilizers and flame retardant chemicals.

### Specifications

Cables manufactured with **SPL-GP-FR** according to standard technology meet IEC 60502 ST2, IS: 5831, EN 50363-3:2005 Type TI 1 and EN 50363-4-1:2005 TM1

### Properties

| <i>Property</i>  | <i>Test Method</i> | <i>Unit</i>        | <i>Typical Value</i> |
|--|--------------------|--------------------|----------------------|
| Density  | ASTM D 792         | g/cm <sup>3</sup>  | 1.46                 |
| Durometer Hardness   | ASTM D 2240        | Shore A            | 90                   |
| Tensile Strength   | ASTM D 638         | MPa                | 19                   |
| Elongation   | ASTM D 638         | %                  | 280                  |
| Variation in Tensile Properties after Heat Ageing at 100°C for 7days |                    |                    |                      |
| Tensile Strength   | ASTM D 638         | %                  | ± 20                 |
| Elongation   | ASTM D 638         | %                  | ± 20                 |
| Limiting Oxygen Index  | ASTM D 2863        | %                  | 31                   |
| Temperature index  | ASTM D 2863        | ° C                | 250                  |
| Hot Deformation Test 80°C, 6 Hrs                                     | IEC 60811-3-1      | %                  | 40                   |
| Thermal Stability  | IEC 60811-3-2      | Minutes            | 100                  |
| Loss of Mass at 100°C for 7days                                      | IEC 60811-3-2      | mg/cm <sup>2</sup> | 1.20                 |

\* Press Sheet Conditions : 180 ° C, 6-8 min, 200kg / cm<sup>2</sup>

\* Data should not be used for specification work

### Processing Techniques

**SPL-GP-FR** 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-GP-FR** is a Colorable Compound and no detrimental effects on properties in presence of masterbatch colours. We suggest drying the masterbatch before use.

### Packaging

**SPL-GP-FR** 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 800 Kgs.

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## Safety

**SPL-GP-FR** 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 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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