

#### SPFR-B20

### Thermoplastic Halogen-Free Flame-Retardant Compound for Cable Bedding

### **Product Description**

Thermoplastic compound based on a well-chosen combination of polyolefins containing a fire-retardant system which provide the cable with self-extinguishing properties without producing halogenic acids. This characteristic renders the compound applicable where the fire behavior of the cable is of main concern in satisfying high levels of safety regulations.

### **Applications**

SPFR-B20 is designed to be used as bedding compound.

#### **Specifications**

SPFR-B20 meet the requirements of the below standards when processed using sound extrusion and testing procedure

IEC 60502

#### **General Features**

Good processability, Excellent surface finish, High flame-retardancy

| Physical & Mechanical Properties       | Standard & Test Method | Unit               | Value |
|--|------------------------|--------------------|-------|
| Density                                | IEC 60811-606          | gr/cm <sup>3</sup> | 1.52  |
| Melt Flow Index (MFI) (150 °C/21.6 kg) | IEC 60811-511          | g/10 min           | 5     |
| Hardness                               | ASTM D2240             | Shore D            | 56    |
| Tensile Strength                       | IEC 60811-501          | MPa                | 15    |
| Tensile Strain                         |                        | %                  | 140   |
| Ageing (100 °C, 7 days)                |                        | 1                  | •     |
| Variation of Tensile Strength          | IEC 60811-401          | %                  | =< 15 |
| Variation of Tensile Strain            |                        | %                  | =< 20 |
| <b>Burning Properties</b>              |                        |                    |       |
| LOI                                    | ASTM D2863             | %                  | 32    |
| рН                                     | IEC 60754-2            | %                  | 6     |
| Conductivity                           |                        |                    | 1.6   |
| Halogenic acid                         | IEC 60754-1            |                    | < 0.5 |

Note: The properties in the table are typical and should not be considered as standardized.



## **Processing Guidelines**

The temperature profile for extrusion of SPFR-B20 can vary depending on the extruder and screw configurations, however, the following process conditions can be normally used

| 130 - 140 °C |
|--------------|
| 130 - 140 °C |
| 140 - 150 °C |
| 140 - 150 °C |
| 150 - 160 °C |
| 150 - 160 °C |
| 160 - 170 °C |
| 70 - 80 °C   |
|              |

Pre-drying of the compound is recommended and the temperature should not exceed 70  $^{\circ}$ C. Melt temperature during process is recommended to be kept under 160  $^{\circ}$ C.

## **Storage**

Original packages should be kept closed and stored in dry conditions, away from direct sunlight in the temperature range between 10 to  $30\,^{\circ}\text{C}$ 

# **Packaging**

25 kg bags (1250 kg per pallet)