



Ddev Plastiks Industries Limited

TECHNICAL DATA SHEET

KI – 13 K (FR) LT LA RoRE UV: Low Halogen, Flame Retardant PVC Cable Compound.

Description:

KI – 13 K (FR) LT LA RoRE UV is Low Halogen, flame Retardant compound for low temperature Sheathing applications in a wide variety of cables. **KI – 13 K (FR) LT LA RoRE UV** is formulated with a high-quality resin with special plasticizers, stabilizers and flame-retardant chemicals. HCl absorbers are added to reduce the HCl gas emission when the cable burns. PVC compound is resistant to Hydrocarbon (Aliphatic). It is RoHS & REACH compliant.

Specification:

- **IS 5831: 2001** Type ST – II
- **BS 7655 : 1997** Type 9

Colour: Natural/as per requirement

Typical Properties:

| Property | Unit | Test Method | Typical Value |
|---------------------------------|--------------------|-----------------|----------------------|
| Application temperature | | | (-) 40°C to (+) 90°C |
| Sp. Gravity @27°C | | ASTM - D – 792 | 1.45 ± 0.03 |
| Hardness @27°C | Shore A | ASTM - D 2240 | 87 ± 2 |
| Thermal Stability@200°C | Minutes | IS : 10810 (60) | ≥ 100 |
| Tensile Strength (TS) @27°C | MPa | IS : 10810 (7) | ≥ 14.0 |
| Elongation at Break (E.B) @27°C | % | IS : 10810 (7) | ≥ 200 |
| Ageing Test | Temperature | °C | 100 ± 2 |
| | Duration | Hr | 168 |
| Variation of T.S | % | IS : 10810 (11) | ≤ ± 25.0 |
| Variation of E.B | % | IS : 10810 (11) | ≤ ± 25.0 |
| Mass Loss on Ageing | mg/cm ² | IS : 10810 (10) | ≤ 1.50 |
| Limiting Oxygen Index | % | IS : 10810 (58) | ≥ 29.0 |
| Temperature Index | °C | IS : 10810 (64) | ≥ 250 |
| Halogen Acid Gas Emission | % | IS : 10810 (59) | ≤ 20.0 |

* Test specimen made after milling the granules and then in compression molded at 160 °C for 10 min with 200kg / cm² hydraulic pressure

Above Values are Typical value of Compound and customer need to check before accepting the TDS.

Processing:

KI-13K (FR) LT LA RORE UV can be processed on any good extruder designed for PVC at temperature in the range of 140°C- 180°C this is the guideline temperature range; actual temperature should be determined by the user depending upon the other processing variables. The screw must have a good homogenizing capacity. Preheating of granules at 80+/-5°C is always advisable for better processing.

Packaging:

KI-13K (FR) LT LA RORE UV is available in the form of free-flowing pellets and supplied in green color bags with sealed double layer PE liner to prevent moisture. The finished bag weight is either 25 kg woven sacks bag or in 1000kg jumbo bags.

Storage:

Material should be store in moisture free cool & dry place and should be consume within three months from the date of manufacture.

Safety:

KI-13K (FR) LT LA RORE UV is not classified as a dangerous product group.

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. These are all the typical values only and subject to change without prior intimation. The product is sold upon condition that purchaser should make their own tests to determine the suitability of such product of their particular purpose and purchasers assume all risks and liability for the results of the use of the product.

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