

TECHNICAL DATA SHEET

KI – 74 FR : PVC cable compound for transparent flame retardant insulation application

Description: KI – 74FR is insulation compound for transparent applications in a wide variety of cables. KI –74FR is formulated with high quality resin, plasticizers, stabilizers and other additives. The compound also meets the requirement of RoHS compliance.

Typical Properties:

Cable manufactured with **KI – 74FR** according to standard manufacturing process meets IS: 5831/2001.

| Property | Unit | Test Method | Typical Value |
|---------------------------------|--------------------|-----------------|----------------------|
| Compound Type | | | A |
| Sp. Gravity @27°C | | ASTM - D – 792 | 1.31 ± 0.03 |
| Hardness @27°C | Shore A | ASTM - D 2240 | 89 ± 2 |
| Thermal Stability@200°C | Minutes | IS : 10810 (60) | ≥ 90 |
| Tensile Strength (TS) @27°C | MPa | IS : 10810 (7) | ≥ 16.0 |
| Elongation at Break (E.B) @27°C | % | IS : 10810 (7) | ≥ 275 |
| Ageing Test | Temperature | °C | 80 |
| | Duration | Hr | 168 |
| Variation of T.S | % | IS : 10810 (11) | ≤ ± 15.0 |
| Variation of E.B | % | IS : 10810 (11) | ≤ ± 15.0 |
| Mass Loss on Ageing | mg/cm ² | IS : 10810 (10) | ≤ 1.3 |
| Limiting Oxygen Index | % | IS : 10810 (58) | ≥ 29 |
| Temperature Index | °C | IS : 10810 (64) | ≥ 250 |
| Volume Resistivity @27°C | Ohm - cm | IS : 3396 / 79 | ≥ 5x10 ¹³ |

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

Processing:

KI 74FR can be processed on any good extruder designed for PVC cable extrusion at temperature in the range of 130°C-170°C. This is the guideline temperature range, actual temperature should be optimized by the user depending upon the other processing variables. The screw must have a good homogenizing capacity. Preheating of granules at 60+/-5°C for 15mins is always advisable for better processing.

Packaging:

KI – 74FR is available in the form of free flowing pellets and supplied in 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 and Shelf Life:

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

Safety:

KI – 74FR 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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