



Ddev Plastiks Industries Limited

TECHNICAL DATA SHEET

KI – 04 FR: Flame Retardant PVC Cable Compound

Description:

KI – 04 FR is a Flame-Retardant Compound for insulation applications in a wide variety of cables. **KI – 04 FR** is formulated with a high-quality resin with plasticizers, stabilizers, flame retardant chemicals and other additives.

Specification:

- IS-5831 Type A
- BS 7655 TI-1

Colour: Natural/as per requirement

Typical Properties:

Property	Unit	Test Method	Typical Value
Sp. Gravity @27°C		ASTM - D – 792	1.45 ± 0.03
Hardness @27°C	Shore A	ASTM - D 2240	89 ± 2
Thermal Stability@200°C	Minutes	IS : 10810 (60) / EN 60811	≥100
Tensile Strength (TS) @27°C	MPa	IS : 10810 (7) / EN 60811	≥16.0
Elongation at Break (E.B) @27°C	%	IS : 10810 (7) / EN 60811	≥ 225
Ageing Test	Temperature	IS : 5831 / BS : 7655	80
	Duration		168
Variation of T.S	%	IS : 10810 (11) / EN 60811	≤ ± 20.0
Variation of E.B	%	IS : 10810 (11) / EN 60811	≤ ± 20.0
Mass Loss on Ageing	mg/cm ²	IS : 10810 (10) / EN 60811	≤ 2.00
Volume Resistivity @27°C	Ohm - cm	IS : 3396 / 79 / ASTM D 257	≥ 5x10 ¹³
Limiting Oxygen Index	%	IS : 10810 (58) / ASTM D 2863	≥ 29.0
Temperature Index	°C	IS : 10810 (64)	≥ 250

* Typical values reported in the table have been obtained from measurements made on compression moulded sheet. Above Values are Typical value of Compound and customer need to check before accepting the TDS.

Processing:

KI – 04 FR can be processed on any good extruder designed for PVC cable extrusion at temperature in the range of 140°C- 180°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 80+/-5°C for 10minutes is always advisable for better processing.

Packaging:

KI – 04 FR 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 – 04 FR 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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