



Ddev Plastiks Industries Limited

TECHNICAL DATA SHEET

KI – 31: Flame-Retardant PVC Cable Compound for General-purpose Sheathing

Description:

KI – 31 is flame Retardant compound for Sheathing applications in a wide variety of cables. **KI – 31** is formulated with a high-quality resin with special plasticizers, stabilizers and flame-retardant chemicals.

Specification:

- IS 5831: ST - 2 (FR)
- BS 7655 : 1997 Type 9

Colour: Natural/as per requirement

Typical Properties:

Property	Unit	Test Method	Typical Value
Sp. Gravity @27 ⁰ C		ASTM - D – 792	1.53 ± 0.03
Hardness @27 ⁰ C	Shore A	ASTM - D 2240	92 ± 2
Thermal Stability@200 ⁰ C	Minutes	IS : 10810 (60)	≥ 110
Tensile Strength (TS) @27 ⁰ C	MPa	IS : 10810 (7)	≥ 15.0
Elongation at Break (E.B) @27 ⁰ C	%	IS : 10810 (7)	≥ 250
Ageing Test	Temperature	⁰ C	100
	Duration	Hr	168
Variation of T.S	%	IS : 10810 (11)	≤ ± 20.0
Variation of E.B	%	IS : 10810 (11)	≤ ± 20.0
Mass Loss on Ageing	mg/cm ²	IS : 10810 (10)	≤ 1.50
Limiting Oxygen Index	%	IS : 10810 (58)	≥ 30.0
Temperature Index	⁰ C	IS : 10810 (64)	≥ 270

* Test specimen made after milling the granules and then in compression moulded 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 – 31 can be processed on any good extruder designed for PVC at temperature in the range of 140⁰C- 180⁰C. 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+/-5⁰C is always advisable for better processing.

Packaging:

KI – 31 is available in the form of free-flowing pellets and supplied in green colour 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 – 31 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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