

TECHNICAL DATA SHEET

KI-NP1, TYPE-A GENERAL PURPOSE PVC INSULATION COMPOUND

Description:

KI-NP1 is specially formulated PVC Compound MEET IS-5831-2001 FOR WIRE & CABLE APPLICATION. It is a General purpose insulation intended for using cables operating at a maximum rated conductor temperature 70°C.

Typical Properties:

Cable manufactured with **KI – NP1** according to standard manufacturing process meets IS: 5831/2001.

PROPERTY (PHYSICAL) :

Property	Unit	Test Method	Typical Value
Compound Type			A
Sp. Gravity @27°C		ASTM - D – 792	1.50± 0.03
Hardness @27°C	Shore A	ASTM - D 2240	89±2
Thermal Stability@200°C	Minutes	IS : 10810 (60)	≥ 100
Tensile Strength (TS) @27°C	MPa	IS : 10810 (7)	≥ 16.0
Elongation at Break (E.B) @27°C	%	IS : 10810 (7)	≥ 250
Volume Resistivity @ 27°C	Ohm-cm	IS : 3396 / 79	>1X10 ¹⁴
Ageing Test	Temperature	°C	80
	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)	≤ 1.0

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

Colour: Natural

Processing:

KI – NP1 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 is always advisable for better processing.

Packaging:

KI – NP1 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 25 kg woven sacks bag .

Storage and Shelf Life:

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

Safety: KI – NP1 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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