

TECHNICAL DATA SHEET

HEAT RESISTANCE INSULATION PVC CABLE COMPOUND

KI-04C - TYPE-C

DESCRIPTION: KI-04C is specially formulated PVC Compound MEET IS-5831-1984 (TYPE-C) FOR WIRE & CABLE APPLICATION. It is a heat resisting insulation for maximum rated conductor temperature 85°C intended for cables with rated voltage up to and including 1100 volts.

SPECIAL CHARACTERISTICS

- Excellent Electrical properties
- Excellent heat resistance property.
- Excellent surface smoothness .
- Better mechanical properties and dimensional stability
- Long run Extrusion without Thermal degradation
- Excellent physical and thermal property.
- Balances of properties and processability.

SPECIFICATION :

This compound will meet TYPE-C of IS-5831

PROPERTY (PHYSICAL & ELECTRICAL) :

Properties	Unit	Requirement As Per IS-5831	Typical value*
Specific gravity	-	Not Applicable	1.39±0.02
Shore hardness	“A”	Not Applicable	92
Before Ageing Tensile strength	N/mm ²	12.5 (min)	17.0
Before Ageing Elongation at break	%	150 (min)	300
After aging @ 80°C ± 2°C for 7 days			
After Ageing Tensile Strength	%	12.5(min)	17.8
Variation in Tensile strength	%	± 20	+4.7
After Ageing Elongation at break	%	150(min)	280
Variation in Elongation	%	± 20	-6.66
Thermal Stability @ 200°C ± 0. 5°C	Minutes	80 (min)	175
Volume Resistivity @ 27°C	Ohm-cm	1x 10 ¹³ (min)	2X10 ¹⁴
LOSS OF MASS	Mg/cm ²	2(max)	0.6

*** The properties have been tested on moulded sheet

PROCESSING TECHNIQUES:

- 1. The recommended processing temperatures are 150⁰c to 180⁰c , However the processing Temperature may be adjusted as per requirement for individual operations.**
- 2. The PVC compounds KI-04C provides excellent surface finish and outstanding output rates over a broad range of extrusion running condition .**
- 3. For smooth processing and better results it is recommended to preheat the material before use.**
- 4. Specific processing condition depend on equipments and cable dimension.**

DELIVERY/PACKAGES : Pellet form and packed in 25 kg HDPE woven sacks with inner liner to ensuring prevention from uptake of moisture and contamination.

STORAGE:

Material shall be kept in a cool dry place.

(The information given in the document is believed to be reliable and is given in good faith but without warranty. The user should test the product to assertion the suitability for intended use. The product specification or the whole document is subject to change without any prior notice.)

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