

TECHNICAL DATA SHEET

HEAT RESISTING INSULATION

PVC COMPOUND FOR CABLES

KI-38(I) FRLS , TYPE-A

DESCRIPTION : KI-38(I)FRLS IS FLAME RETARDENT PVC COMPOUND MEET IS-5831-2001 (TYPE-A) FOR WIRE & CABLE APPLICATION.

KI-38(I) is heat –resisting insulation intended for use in cables operating at a maximum Rated conductor temperature 90°C.

SPECIAL CHARACTERISTICS :

- 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 :

1. This compound will meet type-A of IS-5831
2. KI-38(I) FRLS Compound will meet the special properties like:
 - i) Limiting Oxygen Index (ASTM D 2863)
 - ii) Temperature Index (ASTM D 2863)
 - iii) Acid gas generation (IEC -754-1)
 - iv) FIRE RESISTANCE TEST AS PER:
 - a) IEC-332-3,CATEGORY A,B & C
 - b) IEEE-383
 - c) SS 424 14 75 (Swedish chimney Test)

Properties	Unit	Requirement IS 5831 Specification	Typical value*
Specific gravity	-	NOT APPLICABLE	1.52 ± 0.02
Shore hardness	“A”	NOT APPLICABLE	91 ± 2
Before Ageing			
Tensile strength	N/mm ²	12.5 (min)	≥ 16.0
Elongation at break	%	150 (min)	≥ 230
After ageing @ 80°C ± 2°C for 7 days			
Variation in Tensile strength	%	± 20(max)	±10
Variation in Elongation	%	± 20(max)	±10
Thermal Stability @ 200°C ± 0. 5°C	Minutes	80 (min)	≥ 175
Volume Resistivity @ 27°C	Ohm-cm	1x 10 ¹³ (min)	≥ 1X10 ¹⁴
Loss Of Mass	Mg/cm ²	2 (max)	0.3
FRLS TEST			
Oxygen index	%	29 (min)	32
Temperature index	° C	250 (min)	≥ 275
Smoke density	%	60 (max)	52
Light Transmission	%	40(min)	48
HCL Emission	%	20 (max)	18

*** The properties have been tested on moulded sheet

PROCESSING TECHNIQUES :

1. The recommended processing temperatures are 170⁰c to 190⁰c , However the processing Temperature may be adjusted as per requirement for individual operations.
2. The PVC compounds 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.

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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