



Kkalpana Industries (India) Limited

TECHNICAL DATA SHEET

KI-AR (TYPE-ST1)

FLEXIBLE PVC SHEATHING COMPOUND WITH ANTI RODENT PROTECTION

DESCRIPTION: KI-AR is specially formulated PVC Compound MEET IS-5831 (ST-1) FOR WIRE & CABLE APPLICATION gives protection against attack of rodent . It is a General purpose sheath intended for using cables operating at a maximum rated conductor temperature 70°C.

CHARACTERISTICS :

- Excellent protection against rodent attack.
- Long run Extrusion without Thermal degradation.
- Excellent physical and thermal property.
- Balances of properties and processability.

SPECIFICATION :

This compound will meet TYPE-st1 of IS-5831

PROPERTY (PHYSICAL) :

Properties	Unit	Requirement As Per IS-5831	Typical value*
Specific gravity	-	Not Applicable	1.47±0.02
Shore hardness	“A”	Not Applicable	85
Before Ageing Tensile strength	N/mm ²	12.5 (min)	16.0
Before Ageing Elongation at break	%	150 (min)	300
After ageing @ 80°C ± 2°C for 7 days			
After Ageing Tensile strength	%	12.5(min)	16.4
Variation in Tensile strength	%	± 20	+2.5
After Ageing Elongation at break	%	150(min)	285
Variation in Elongation	%	± 20	-5.0
Thermal Stability @ 200°C ± 0. 5°C	Minutes	80 (min)	110
LOSS OF MASS	Mg/cm ²	2(max)	0.7

*** 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. For smooth processing and better results it is recommended to preheat the material before use at 70°C for 1 hr .

PACKAGING : 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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