

## TECHNICAL DATA SHEET

### KI-05FR(TYPE-A)

**DESCRIPTION :** KI-05 FR IS FLAME RETARDENT PVC COMPOUND MEET IS-5831-1984 (TYPE-A) FOR WIRE & CABLE APPLICATION. The PVC compound is formulated by high quality pvc resin with additives & stabilizer to achieve excellent mechanical properties along with good process ability

### 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.

Properties	Unit	REQUIREMENT AS PER IS-5831	Typical value*
Specific gravity	-	NOT APPLICABLE	1.50±0.02
Shore hardness	“A”	NOTAPPLICABLE	90
Before Ageing			
Tensile strength	N/mm2	12.5 (min)	17.5
Elongation at break	%	150 (min)	290
After ageing @ 80°C ± 2°C for 7 days			
After ageing Tensile strength	%	12.5(min)	16.8
Variation in Tensile strength	%	± 20	-6.66
After aging Elongation	%	150(min)	270
Variation in Elongation	%	± 20	-6.89
Thermal Stability @ 200°C ± 0. 5°C	Minutes	80 (min)	115
Volume Resistivity @ 27°C	Ohm-cm	1x 10 <sup>13</sup> (min)	2X10 <sup>14</sup>
Loss Of Mass In Air Oven @ 80°C ± 2°C for 7 days			
Loss Of Mass	mg/cm2	2 (max)	0.6
Flame Retardant Test			
Oxygen index	%	29 (min)	30.2
Temperature index	° C	250 (min)	275

\*\*\* The properties have been tested on moulded sheet

## **Processing Techniques:**

1. **The recommended processing temperatures are 150<sup>0</sup>c to 180<sup>0</sup>c , 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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