

## TECHNICAL DATA SHEET

**Grade: KI-65D FR PVC Cable Compound for flexible insulation with fire retardant property for cable Application(General Purpose)**

### Description:

**KI –65DFR** is suitable for flexible Fire resistance insulation applications in a wide variety of cables. **KI –65DFR** is formulated with a high quality resin with plasticizers, stabilizers and other specialty chemicals.

### Typical Properties:

Cable manufactured with **KI –65D FR** according to standard manufacturing process meets IS: 5831/2001.

Property	Unit	Test Method	Value
Type			Type-D-FR
Sp. Gravity @27 <sup>o</sup> C		ASTM - D – 792	1.34 ± 0.03
Hardness @27 <sup>o</sup> C	Shore A	ASTM - D 2240	75 ± 2
Thermal Stability@200 <sup>o</sup> C	Minutes	IS : 10810 (60)	≥ 85
Tensile Strength (TS) @27 <sup>o</sup> C	MPa	IS : 10810 (7)	≥ 14.0
Elongation at Break (E.B) @27 <sup>o</sup> C	%	IS : 10810 (7)	≥ 275
Ageing Test	Temperature	<sup>o</sup> C	80
	Duration	Hr	168
Variation of T.S	%	IS : 10810 (11)	± 18.0
Variation of E.B	%	IS : 10810 (11)	± 18.0
Mass Loss on Ageing	mg/cm <sup>2</sup>	IS : 10810 (10)	1.30
Limiting Oxygen Index	%	IS : 10810 (58)	≥ 30.0
Volume Resistivity @27 <sup>o</sup> C	Ohm - cm	IS : 3396 / 79	≥ 1x10 <sup>12</sup>

\* Test specimen made after milling the granules and then in compression mould at 160 °C for 10 min with 200kg / cm<sup>2</sup> hydraulic pressure

### Processing:

**KI – 65D-FR** can be processed on any good extruder designed for PVC cable extrusion at temperature in the range of 130<sup>o</sup>C- 160<sup>o</sup>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 70+/-5<sup>o</sup>C is always advisable for better processing.

### Packaging:

**KI –65D-FR** 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:

Material should be store in moisture free cool & dry place.

**Safety:KI –65D-FR** 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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