

## TECHNICAL DATA SHEET

### **KI – 05 FR (RoHS) UV : ST1 Type RoHS Flame Retardant PVC Cable Compound**

#### **Description:**

**KI – 05FR (RoHS) UV** is Flame Retardant PVC Compound for Sheathing applications in a wide variety of cables. **KI – 05FR (RoHS) UV** is formulated with a high quality suspension grade PVC resin with suitable plasticizers, stabilizers, fillers and flame retardant chemicals The compound will meet the RoHS compliance norms with UV Stabilized.

#### **Type:**

ST – I : IS 5831 / 2001 (Cat – 5)

TM - 1 : BS EN 50363-4-1 : 2005

TM – 51 : BS EN 50290-2-22

ST – 1 : IEC 60502-1 : 2004

#### **Typical Properties:**

Cable manufactured with **KI – 05FR (RoHS) UV** according to standard manufacturing process meets

IS: 5831/2001, BS EN 50363-4-1 : 2005 & BS EN 50290-2-22, IEC 60502-1 : 2004.

Property	Unit	Test Method	Typical Value
Sp. Gravity @27°C		ASTM - D – 792	1.49 ± 0.03
Hardness @27°C	Shore A	ASTM - D 2240	88 ± 2
Thermal Stability@200°C	Minutes	IS : 10810 (60)	≥ 60
Tensile Strength (TS) @27°C	MPa	IS : 10810 (7)	≥ 14.0
Elongation at Break (E.B) @27°C	%	IS : 10810 (7)	≥ 250
Ageing Test	Temperature	°C	80
	Duration	Hr	168
Variation of T.S	%	IS : 10810 (11)	± 15.0
Variation of E.B	%	IS : 10810 (11)	± 15.0
Mass Loss on Ageing	mg/cm <sup>2</sup>	IS : 10810 (10)	≤1.8
Volume Resistivity @27°C	Ohm - cm	IS : 3396 / 79	NA
Limiting Oxygen Index	%	IS : 10810 (58)	≥ 29.0
Temperature Index	°C	IS : 10810 (64)	≥ 250

\* 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

**Colour:** Natural/Grey/Blue / Black

#### **Processing:**

**KI – 05FR (RoHS) UV** can be processed on any good extruder designed for PVC compound extrusion at temperature in the range of 140°C- 180°C.This is the guideline temperature range, actual temperature should be determined by the user depending upon the other processing variables. The screw must have a good homogenizing capacity. Preheating of granules at 70+/-5°C is always advisable for better processing.

#### **Packaging:**

**KI – 05FR (RoHS) UV** is available in the form of free flowing pellets and supplied in 25 Kg woven sack bags with sealed double layer PE liner to prevent moisture. or in 1000kg jumbo bags.

#### **Storage:**

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

#### **Safety:**

**KI – 05FR (RoHS) UV** 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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