



Ddev Plastiks Industries Limited

## TECHNICAL DATA SHEET

### **KI – 14 RoRE LT-30: PVC cable compound for general purpose Insulation application**

#### **Description:**

**KI – 14 RoRE LT-30** is a Compound for insulation applications in a wide variety of cables. **KI – 14 RoRE LT-30** is formulated with a high-quality resin with plasticizers, stabilizers, and other additives. It is RoHS & REACH compliant.

#### **Specification:**

- IS 5831: 2001 Type A
- EN 50363-3 / BS 7655 Section-3.1 : 1997 TI-1

#### **Typical Properties:**

Property	Unit	Test Method	Typical Value
Application temperature			(-) 30°C to (+) 70°C
Sp. Gravity @27°C		ASTM - D – 792	1.44 ± 0.03
Hardness @27°C	Shore A	ASTM - D 2240	89 ± 2
Thermal Stability@200°C	Minutes	EN 60811-3-2,Clause 9	≥ 100
Tensile Strength (TS) @27°C	MPa	EN 60811-1-1,Clause 9.1	≥ 15.0
Elongation at Break (E.B) @27°C	%	EN 60811-1-1,Clause 9.1	≥ 225
Ageing Test	Temperature	BS EN 50363-3	80 ± 2
	Duration		168
Variation of T.S	%	EN 60811-1-2,Clause 8.1	≤ ± 20.0
Variation of E.B	%	EN 60811-1-2,Clause 8.1	≤ ± 20.0
Mass Loss on Ageing	mg/cm <sup>2</sup>	EN 60811-3-2,Clause 8.1	≤ 2.0
Volume Resistivity @27°C	Ohm - cm	ASTM D257	≥ 5x10 <sup>13</sup>
Bending Test & Impact Test at Low Temperature(-30°C)	-	EN 60811-1-4,Clause 8.1 & 8.5	Pass

\* 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.

Above Values are Typical value of Compound and customer need to check before accepting the TDS.

#### **Processing:**

**KI – 14 RoRE LT-30** can be processed on any good extruder designed for PVC cable extrusion at temperature in the range of 140°C- 180°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 80+/-5°C for 10minutes is always advisable for better processing.

#### **Packaging:**

**KI – 14 RoRE LT-30** 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 either 25 kg woven sacks bag or in 1000kg jumbo bags.

#### **Storage and Shelf Life:**

Material should be store in moisture free cool & dry place and should be consume within three months from the date of manufacturing.

#### **Safety:**

**KI – 14 RoRE LT-30** 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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