

Ddev Plastiks Industries Limited TECHNICAL DATA SHEET

KI – 04 FR OR RoRE (INS): <u>Flame Retardant, Oil Resistance Cable Insulation Compound</u> **Description**:

KI – 04 FR OR RoRE (INS) is a Flame-Retardant Compound for insulation applications in a wide variety of cables. **KI – 04 FR OR RoRE (INS))** is formulated with a high-quality resin with plasticizers, stabilizers, flame retardant chemicals and other additives. It is RoHS & REACH compliance.

Specification:

• JIS C 3307 / JIS C 3005

Typical Properties:

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Property		Unit	Test Method	Typical Value
Sp. Gravity @27 ⁰ C			ASTM - D - 792	1.45 ± 0.03
Hardness @27°C		Shore A	ASTM - D 2240	86 ± 2
Thermal Stability@200°C		Minutes	IS: 10810 (60)	≥ 150
Tensile Strength (TS) @27 ⁰ C		MPa	IS: 10810 (7)	≥ 16.0
Elongation at Break (E.B) @27°C		%	IS: 10810 (7)	≥ 250
Heat Ageing Test	Temperature	⁰ C		100 ± 2
	Duration	Hr		48
Retention of T.S		%	JIS C 3005	≥ 85
Retention of E.B		%		≥ 80
Oil Ageing Test (IRM 902)	Temperature	°C	JIS C 3005	70 ± 2
	Duration	Hr		4
Retention of T.S		%		≥ 80
Retention of E.B		%		≥ 70
Volume Resistivity @27°C		Ohm - cm	IS: 3396 / 79	≥ 1x10 ¹⁴
Limiting Oxygen Index		%	IS: 10810 (58)	≥ 30
Temperature Index		°C	IS: 10810 (64)	≥ 260

^{*} Test specimen made after milling the granules and then in compression moulded at 160 °C for 10 min with 200kg / cm² hydraulic pressure

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

Processing:

KI-04 FR OR Rore (INS) can be processed on any good extruder designed for PVC 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 $80+/-5^{\circ}$ C for 10-15mins is always advisable for better processing.

Packaging:

KI-04 FR OR Rore (INS) is available in the form of free-flowing pellets and supplied in white colour 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:

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

Safety:

KI-04 FR OR RoRE (INS) 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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