



Ddev Plastiks Industries Limited

TECHNICAL DATA SHEET

KI – 31 FR Oil (LOI 40): Oil resistant Heat resistant PVC Cable Compound

Description:

KI – 31 FR Oil (LOI 40) is an Oil & heat resistant compound for insulation applications in a wide variety of cables. **KI – 31 FR Oil (LOI 40)** is formulated with a high-quality resin with plasticizers, stabilizers and chemicals and other additives.

Specification:

- IS 5831: C (Oil Resistance)
- IS: 8783: Type 1

Colour: Natural/as per requirement

Typical Properties:

Property		Unit	Test Method	Typical Value
Sp. Gravity @27 ^o C			ASTM - D – 792	1.47 ± 0.03
Hardness @27 ^o C		Shore A	ASTM - D 2240	92 ± 2
Thermal Stability@200 ^o C		Minutes	IS : 10810 (60)	≥ 100
Tensile Strength (TS) @27 ^o C		MPa	IS : 10810 (7)	≥ 17.0
Elongation at Break (E.B) @27 ^o C		%	IS : 10810 (7)	≥ 200
Ageing Test	Temperature	^o C		135
	Duration	Hr		168
Variation of T.S		%	IS : 10810 (11)	≤ ± 25.0
Variation of E.B		%	IS : 10810 (11)	≤ ± 35.0
Volume Resistivity @27 ^o C		Ohm - cm	IS : 3396 / 79	≥ 1x10 ¹⁴
Limiting Oxygen Index		%	IS : 10810 (58)	40.0
Temperature Index		^o C	IS : 10810 (64)	≥ 300
Oil Ageing	Oil Use		IEC 60811 (404)	IRM 902
	Temperature	^o C		90
	Duration	Hr		168
Variation of T.S		%	IEC 60811 (404)	≤ ± 30.0
Variation of E.B		%	IEC 60811 (404)	≤ ± 30.0

* Test specimen made after milling the granules and the 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 – 31 FR Oil (LOI 40) can be processed on any good extruder designed for PVC cable extrusion at temperature in the range of 140^oC- 180^oC.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^oC is always advisable for better processing.

Packaging:

KI – 31 FR Oil (LOI 40) 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:

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

Safety:

KI – 31 FR Oil (LOI 40) 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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