



Ddev Plastiks Industries Limited

TECHNICAL DATA SHEET

KI – 03 OR: Oil resistant PVC Cable Compound (Flexible Application)

Description:

KI – 03 OR is Oil resistant compound for sheathing applications in a wide variety of cables. **KI – 03OR** is formulated with a high-quality resin with special plasticizer, stabilizers. Special additives are added to make the compound resistant from petrochemicals oils.

Specification:

- IS 5831: 2001 Type ST1
- EN: 50290-2-22:2001 TM-54

Colour: Natural / As per requirement

Typical Properties:

Property	Unit	Test Method	Typical Value
Sp. Gravity @27 ⁰ C		ASTM - D – 792	1.41 ± 0.03
Hardness @27 ⁰ C	Shore A	ASTM - D 2240	82 ± 2
Thermal Stability@200 ⁰ C	Minutes	IS : 10810 (60)	≥ 80
Tensile Strength (TS) @27 ⁰ C	MPa	IS : 10810 (7)	≥ 13.0
Elongation at Break (E.B) @27 ⁰ C	%	IS : 10810 (7)	≥ 200
Ageing Test	Temperature	⁰ C	80
	Duration	Hr	168
Variation of T.S	%	IS : 10810 (11)	≤ ± 20.0
Variation of E.B	%	IS : 10810 (11)	≤ ± 20.0
Mass Loss on Ageing	mg/cm ²	IS : 10810 (10)	1.25
Oil Ageing Test	Temperature	⁰ C	70 ± 2
	Duration	Hr	4
Variation of T.S	%	IEC : 60811-2-1(10)	≤ ± 30.0
Variation of EB	%	IEC : 60811-2-1(10)	≤ ± 30.0

* Test specimen made after milling the granules and then in compression mould at 160⁰C 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 – 03 OR can be processed on any good extruder designed for PVC at temperature in the range of 130⁰C- 170⁰C. 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 60+/-5⁰C for 15minutes is always advisable for better processing.

Packaging:

KI – 03 OR is available in the form of free-flowing pellets and supplied in green 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 and Shelf Life:

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

Safety:

KI – 03 OR 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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