



Ddev Plastiks Industries Limited

TECHNICAL DATA SHEET

KI – 42 FR OR AA LT RoRE : PVC cable compound for low temperature sheathing application

Description:

KI – 42 FR OR AA LT RoRE is sheathing type compound for low temperature sheathing applications in a wide variety of cables. **KI – 42 FR OR AA LT RoRE** is formulated with a high-quality resin with plasticizers, stabilizers and other additives. It is RoHS & REACH compliant. PVC compound is resistant to Hydrocarbon (Aliphatic) & Diluted Acid + Alkalis

Specification

- EN 50 290-2-22 : TM51
- IS 5831 : ST II

Colour : Natural / as per requirement

Typical Properties:

Property	Unit	Test Method	Typical Value
Application temperature			(+) 90 ⁰ C to (-) 40 ⁰ C
Sp. Gravity @27 ⁰ C		ASTM - D – 792	1.42 ± 0.03
Hardness @27 ⁰ C	Shore A	ASTM - D 2240	85 ± 2
Thermal Stability@200 ⁰ C	Minutes	IS : 10810 (60)	≥ 100
Tensile Strength (TS) @27 ⁰ C	MPa	IS : 10810 (7)	≥ 14.0
Elongation at Break (E.B) @27 ⁰ C	%	IS : 10810 (7)	≥ 250
Limiting Oxygen Index	%	IS : 10810 (58)	≥ 33
Ageing Test	Temperature	⁰ C	100
	Duration	Hr	168
Variation of T.S	%	IS : 10810 (11)	≤ ± 25.0
Variation of E.B	%	IS : 10810 (11)	≤ ± 25.0
Mass Loss on Ageing	mg/cm ²	IS : 10810 (10)	≤ 2.00

1. Passes Cold Bend & Cold Impact (4 hrs) @-40⁰C
2. **Oil ageing:** (IRM 902) @ 70⁰C / 4 hrs – Retention of T.S. & E.B.± 75%.
3. Acid ageing at room temperature for 7 Days (1N HCL) Retention of T.S. & E.B.± 75%.
4. Base ageing at room temperature for 7 Days (1N NaOH) Retention of T.S. & E.B.± 75%.

* Typical values reported in the table have been obtained from measurements made on compression moulded sheet. Above Values are Typical value of Compound and customer need to check before accepting the TDS.

KI – 42 FR OR AA LT RoRE can be processed on any good extruder designed for PVC cable extrusion at temperature in the range of 140⁰C- 170⁰C.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 70+/-5⁰C is always advisable for better processing.

Packaging:

KI – 42 FR OR AA LT RoRE 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.

Safety:

KI – 42 FR OR AA LT RoRE 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.

For more information PI contact at;

Head Office:

2B Pretoria Street, Kolkata-71
Tel: 91-33-22823744/45/3671
Fax:91-33-22823739

E-mail: kolkata@ddevgroup.in

Website: www.ddevgroup.in

Works:

Survey No: 24/3, Demni Road, Village-Demni
Dadra (Dadra & Nagar Haveli)-396230, India
Tel:91-9909006426

E-mail: dadra@ddevgroup.in

Mumbai Office

106, Laxmi Plaza, Laxmi Industrial Estate
New Link Road, Andheri (West)
Mumbai-400053, India

E-mail: mumbai@ddevgroup.in