



Ddev Plastiks Industries Limited

TECHNICAL DATA SHEET

KI – ARV (105) : Oil resistance, Low Temperature PVC Cable Insulation Compound

Description:

KI – ARV (105) is a special type **Lead Free** compound for insulation applications in a wide variety of Automotive cables. KI – ARV (105) is formulated with a high quality resin with plasticizers, stabilizers and chemicals.

Specification:

- ISO 6722: Class B / T 2

Colour: Natural / As per requirement

Typical Properties:

| Property | Unit | Test Method | Typical Value |
|--|--------------------|-----------------|----------------------|
| Application Temp | ^o C | | (+) 105 to (-) 40 |
| Sp. Gravity @27 ^o C | | ASTM - D – 792 | 1.35 ± 0.03 |
| Hardness @27 ^o C | Shore A | ASTM - D 2240 | 92 ± 2 |
| Thermal Stability@200 ^o C | Minutes | IS : 10810 (60) | ≥ 250 |
| Tensile Strength (TS) @27 ^o C | MPa | IS : 10810 (7) | ≥ 18.0 |
| Elongation at Break (E.B) @27 ^o C | % | IS : 10810 (7) | ≥ 220 |
| Ageing Test | Temperature | ^o C | 135 |
| | 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) | ≤ 2.0 |
| Volume Resistivity @27 ^o C | Ohm - cm | IS : 3396 / 79 | ≥ 1x10 ¹⁴ |

After oil ageing @ 70^oC / 4 hrs – Retention of T.S. & E.B.= ± 85%

Passes Cold Bend & Cold Impact @-40^oC

* Test specimen made after milling the granules and the compression molded 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 – ARV (105) 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 – ARV (105) 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 – ARV (105) 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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