

TECHNICAL DATA SHEET

KI – 33 OR FR UV ATAR BK CAT A: Flame Retardant Oil Resistant Low Halogen, PVC Cable Compound.

Description:

KI – 33 OR FR UV ATAR BK CAT A is an Oil resistant, Low Smoke, Flame Retardant Compound for Sheathing applications in a wide variety of cables. It is formulated with a high-quality resin with special plasticizer, stabilizers and flame-retardant chemicals. Smoke and HCL absorbers are added so that emission of smoke and HCL are limited to low levels when the cable burns. Special additives are added to make the compound resistant from petrochemicals oils. This compound also contains Ant termite and Anti rodent repellent agent having UV Stabilised & RoHS Compliance.

Specification:

- IS 5831: ST -2 (FR)
- BS 7655: 1997 Type 9

Colour: Black

Typical Properties

Property		Unit	Test Method	Typical Value
Sp. Gravity @27 ^o C			ASTM - D – 792	1.59± 0.03
Hardness @27 ^o C		Shore A	ASTM - D 2240	90 ± 3
Thermal Stability@200 ^o C		Minutes	EN 60811-3-2, Clause 9	> 80
Tensile Strength (TS) @27 ^o C		MPa	EN 60811-1-1, Clause 9.1	>13.5
Elongation at Break (E.B) @27 ^o C		%	EN 60811-1-1, Clause 9.1	>150
Ageing Test	Temperature	^o C	IEC 60502	100
	Duration	Hr	IEC 60502	168
Variation of T.S,		%	EN 60811-1-2, Clause 8.1	≤ ± 20.0
Variation of E.B,		%	EN 60811-1-2, Clause 8.1	≤ ± 20.0
Oil Ageing Test IRM 902	Temperature	^o C	ASTM D 1047	90
	Duration	Hr		168
Variation of T.S, Max		%		± 30.0
Variation of E.B,Max		%		± 30.0
Volume Resistivity @27 ^o C		Ohm - cm	ASTM D 257	≥ 1x10 ¹⁴
Limiting Oxygen Index		%	ASTM D 2863	>34.0
Temperature Index		^o C	IEC 60754-1	< 17

*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 – 33 OR FR UV ATAR BK CAT A can be processed on any good extruder designed for PVC at temperature in the range of 140^oC- 180^oC. 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^oC is always advisable for better processing.



Packaging:

KI – 33 OR FR UV ATAR BK CAT A 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:

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

Safety:

KI – 33 OR FR UV ATAR BK CAT A 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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