



Kkalpana Industries (India) Limited

An ISO 9001:2015 company
TECHNICAL DATA

NATURAL HDPE INSULATION COMPOUND:

KI –IN – 0366

DESCRIPTION :

KI-IN-0366 is a natural, colourable High Density Polyethylene (HDPE) insulation Compound and is well suited for communication and energy cables.

KI-IN-0366 has excellent stress crack resistance and tensile properties. It contains metal deactivators to ensure excellent resistance to thermal ageing of insulation cores.

SPECIFICATIONS :

KI-IN-0366 conforms: ST-7 of IEC-60502 / 60840 except Carbon Black content.

TYPICAL PROPERTIES:

Properties	Unit	Typical Value	Test Method
Density	gm / cm ³	0.945	ASTM D-792
Melt flow index @ 190°C / 2.16 kg_load	gm / 10 min	0.50	ASTM D-1238
Oxidation Induction Time	Minutes	> 100	ASTM-D-3895
Tensile Strength at break	MPa	>20.0	ASTM-D-638
Elongation at Break	%	> 800	ASTM-D-638
ESCR	Hrs.	> 1000	ASTM-D-1693
Oven ageing at 110 °C, 14 Days Variation in Tensile Strength	%	± 20	IS-10810 Part-11/IEC 60811-401 DO
Variation in Elongation at Break	%	± 20	
Volume Resistivity@25°C	Ohm-cm	>1x10 ¹⁵	ASTM-D-257
Di-electric Strength	KV/mm	> 25	ASTM-D-149
Di-Electric Constant @25°C	-	2.3	ASTM-D-150
Dissipation Factor @25°C	-	0.0004	ASTM-D-150

All properties have been determined from compression moulded plaque after 24 hours conditioning.

PRE DRYING : Dehumidified hopper drying at 70°C for 1 to 2 hours prior to extrusion may be used to remove moisture. Specific processing conditions depends on type / size of the extruder and cable dimension and output.

PROCESSING CONDITIONS :

Position	Temperature (°C)
Barrel	180 - 200
Head	200 - 220
Die	230

PACKAGE : 25 kg packed woven sack bags containing inner PE liners, other packing to Customers' specific requirements are also available.

STORAGE : Shelf life of the products is 12 months from the date of production subject to following condition:
Storage should be in cool & dry place. Bags should be kept on wooden or plastic pallets.

The information given in the document is believed to be reliable and is given in the good faith but without warranty. The user should test the product to ascertain the suitability for the intended use. Product specification or the whole document is subject to change without any prior notice.

MKT: TDS – IN/ 0366 – 11/17