



Ddev Plastiks Industries Limited

An ISO 9001:2015 company

TECHNICAL DATA

Natural LLDPE Insulation Compound:

KI -IN - 0699

DESCRIPTION :

KI-IN-0699 is a high molecular weight, Linear low density Polyethylene based Insulation compound. An enriched additive package ensures its thermal stability and copper conductor application.

KI-IN-0699 has excellent stress crack resistance and tensile properties. It contains metal deactivators to ensure excellent resistance to thermal ageing of insulation cores.

SPECIFICATION:

Type 03 (Solid) as per BS 6234.

TYPICAL PROPERTIES :

Properties	Unit	Typical Value	Test Method
Colour	-	Natural	Visual
Density	gm / cm ³	0.925	ASTM D-792
Melt flow index @ 190°C / 2.16 kg_load	gm / 10 min	0.60-0.80	ASTM D-1238
Oxidation Induction Time	Minutes	>50	ASTM-D-3895
Tensile Strength at break	MPa	>18	ASTM-D- 638
Elongation at Break	%	>800	ASTM-D-638
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
Hardness	Shore D	49 - 50	ASTM-D-2240
Oven ageing at 100°C,240 hours			
a) Variation in Tensile Strength	%	±20	IS-10810 Part-11/IEC 60811-401
b) Variation in Elongation at Break	%	±20	DO

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

PROCESSING CONDITIONS :

Position	Temperature (°C)
Barrel	160 - 180
Head	180 - 200
Die	200 - 220

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

STORAGE : Storage should be in cool & proper place. Bags should be kept top of 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/0699 – 08/2022