Kkalpana Industries (India) 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.

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	>40	ASTM-D-3895
Tensile Strength at break	MPa	>18	ASTM-D- 638
Elongation at Break	%	>800	ASTM-D-638
Volume Resistivity@25^{0}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^{0}C,240 hours a) Variation in Tensile Strength b) Variation in Elongation at Break	 % %	 ±20 ±20	IS-10810 Part-11/IEC 60811-401 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 Specific requirements are also available.

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