



Kkalpana Industries (India) Limited

An ISO 9001:2015 company
TECHNICAL DATA

Black LLDPE Sheathing / Jacketing Compound :

KI – BS – 0699

DESCRIPTION :

KI-BS-0699 is a black, high molecular weight, Linear low density Polyethylene based Sheathing/Jacketing compound. An enriched additive package ensures its thermal stability during processing.

KI-BS-0699 has excellent stress crack resistance and tensile properties. It contains 2.5% well dispersed carbon black to ensure excellent resistance to outdoor weathering.

SPECIFICATIONS : KI-BS-0699 conforms to ST-3 & ST-7 of IEC-60502 / 60840

Properties	Unit	Typical Value	Test Method
Density of Compound	gm / cm ³	0.934	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	>100	ASTM-D-3895
Carbon Black Content	%	2.5	ASTM-D-1603
Tensile Strength at break	MPa	>18.0	ASTM-D-638
Elongation at Break	%	> 800	ASTM-D-638
Oven ageing at 100 °C, 10Days			
Variation in Tensile Strength	%	< ± 20	IEC-60811-401
Variation in Elongation at Break	%	< ± 20	
Volume Resistivity@25°C	Ohm-cm	>1x10 ¹⁵	ASTM-D-257
ESCR @ 50°C (No failure)	Hrs.	> 500	ASTM-D-1693
Hardness	Shore D	49-50	ASTM-D-2240

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 Shelf life of the product is 12 months from the date of production subject to following condition:
Storage should be in cool and 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.

