



Ddev Plastiks Industries 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, ASTM D -1248 Type -1, Class C, Category 4, Grade E4,E5,J3,W2,W3,W4.

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 kgs 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 on top of wooden or plastic pallets.

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