



Kkalpana Industries (India) Limited

An ISO 9001:2015 company
TECHNICAL DATA

Black LDPE Sheathing / Jacketing Compound :

KI – BS – 0588

DESCRIPTION :

KI-BS-0588 is a black, high molecular weight, Low density Polyethylene based Sheathing / Jacketing compound. An enriched additive package ensures its thermal stability during processing.

It contains 2.5% well dispersed carbon black to ensure excellent resistance to outdoor weathering.

SPECIFICATIONS :

KI-BS-0588 conforms to Type 03C of BS 6234 & Type II of ASTM-D-1248 (Jacketing & Sheathing grade).

Properties	Unit	Typical Value	Test Method
Density of Compound	gm / cm ³	0.930	ASTM D-792
Melt flow index @ 190°C / 2.16 kg _{load}	gm / 10 min	0.20 – 0.30	ASTM D-1238
Oxidation Induction Time	Minutes	> 45	ASTM-D-3895
Carbon Black Content	%	2.5	ASTM-D-1603
Tensile Strength at break	MPa	> 15.0	ASTM-D-638
Elongation at Break	%	> 600	ASTM-D-638
<i>Oven ageing at 100 °C, 10 Days</i> Variation in Tensile Strength	%	± 20	IEC 60811-401
Variation in Elongation at Break	%	± 20	IEC 60811-401
Volume Resistivity@25°C	Ohm-cm	>1x10 ¹⁵	ASTM-D-257
ESCR @ 50°C (No failure)	Hrs.	> 48	ASTM-D-1693
Hardness	Shore D	45 - 46	ASTM-D-2240

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

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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 & 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.

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