



# Kkalpana Industries (India) Limited

An ISO 9001:2015 company

## TECHNICAL DATA

**Black MDPE Sheathing /Jacketing Compound :**

**KI – BS - 0477**

### DESCRIPTION :

KI-BS-0477 is a black, high molecular weight, Medium density based Sheathing / Jacketing compound, specially formulated for Polyethylene insulated jelly filled communication cables. An enriched additive package ensures its thermal stability during processing.

KI-BS-0477 has excellent stress crack resistance & tensile properties. It contains 2.5% well dispersed carbon black to ensure excellent resistance to outdoor weathering.

**SPECIFICATIONS :** KI-BS-0477 conforms to ST-3 & ST-7 of IEC-60502 / 60840, Type HO3C of BS 6234 & Type III of ASTM-D-1248 (Jacketing & Sheathing grade).

### PROPERTIES:

Properties	Unit	Typical Value	Test Method
Density of Compound	gm / cm <sup>3</sup>	0.948	ASTM D-792
Melt flow index @ 190°C / 2.16 kg_load	gm / 10 min	0.50 – 0.70	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	%	> 700	ASTM-D-638
Oven ageing at 110 °C, 14 Days			
Variation in Tensile Strength	%	< ± 20	IEC-60811-401
Variation in Elongation at Break	%	< ± 20	
Volume Resistivity@25°C	Ohm-cm	>1x10 <sup>15</sup>	ASTM-D-257
ESCR @ 50°C (No failure)	Hrs.	> 500	ASTM-D-1693
Hardness	Shore D	56 - 57	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	180 - 200
Head	200 - 220
Die	230

**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 & proper place. Bags should be kept on top of wooden pallets.

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*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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