



Kkalpana Industries (India) Limited

An ISO 9001:2015 company
TECHNICAL DATA

NATURAL MDPE SHEATHING COMPOUND:

KI-SC-0477

DESCRIPTION:

KI-SC-0477 is high molecular weight, Medium density based Sheathing Compound. An enriched additive package ensures its thermal stability during processing.

KI-SC-0477 has excellent stress crack resistance and tensile properties. It contains UV additive to ensure excellent resistance to outdoor weathering.

TYPICAL PROPERTIES:

Properties	Unit	Typical Value	Test Method
Density	g/cm ³	0.938	ASTM-D-792
MFI@190°C, 2.16 kg load	g/10 Minutes	0.6	ASTM-D-1238
Oxidation Induction Time	Minutes	> 100	ASTM-D-3895
Tensile Strength at break	MPa	> 18	ASTM-D-638
Elongation at break	%	> 700	ASTM-D-638
ESCR	Hrs	> 500	ASTM-D-1693
Hardness	Shore D	56 - 57	ASTM-D-2240
Oven ageing at 110°C, 14 days			
a) Variation in Tensile Strength	%	±20	IS-10810 Part-11/IEC 60811-401 DO
b) Variation in Elongation at Break	%	±20	

All the above properties have been from compression moulded plaque after 24 hours conditioning.

PREDRYING:

Dehumidified hopper drying at 70°C for 1 to 2 hours prior to extrusion may be used to remove moisture. Specific processing condition depends on type / size of the extruder and cable dimension and output.

PROCESSING CONDITIONS:

Barrel Position	Temperature, °C
Barrel	180-200
Head	200-220
Die	230

PACKING:

25 Kgs packed woven sack bags containing inner PE liners, other packing to customer's 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.