



Ddev Plastiks Industries Limited

An ISO 9001:2015 company
TECHNICAL DATA

NATURAL HDPE SHEATHING /JACKETING COMPOUND:

KI –SC – 0366

DESCRIPTION :

KI-SC-0366 is a natural, UV- Stabilised colourable non FR High Density Polyethylene (HDPE) Sheathing/Jacketing Compound and is well suited for control and power cables.

KI-SC-0366 has excellent stress crack resistance and tensile properties. It contains UV – additive to ensure excellent resistance to outdoor weathering.

SPECIFICATIONS :

KI-SC-0366 conforms requirements as per HD 620 S2, ST-7 of IEC-60502 / 60840 except Carbon Black content.

TYPICAL PROPERTIES:

Properties	Unit	Typical Value	Test Method
Density	gm / cm ³	0.945	ASTM D-792
Melt flow index @ 190°C / 2.16 kg_load	gm / 10 min	0.50	ASTM D-1238
Oxidation Induction Time	Minutes	> 100	ASTM-D-3895
Tensile Strength at break	Mpa	>20.0	ASTM-D-638
Elongation at Break	%	> 800	ASTM-D-638
Oven ageing at 110 °C, 14 Days Variation in Tensile Strength	%	± 20	IS-10810 Part-11/IEC 60811-401
Variation in Elongation at Break	%	± 20	
Xenon UV ageing for 720 hrs as per ASTM G 155 Variation in Tensile Strength	%	± 15	IS-10810 Part-11/IEC 60811-401
Variation in Elongation at Break	%	± 15	
ESCR @ 50°C (No failure)	Hrs.	> 1000	ASTM-D-1693
Hardness	Shore D	59 – 60	ASTM-D-2240
PH	PH	< 4.3	IEC 60754-2
Conductivity	µS/mm	< 10	IEC 60754-2
Pressure Test (@115°C,6hr), Maximum 50%		Passes	IEC 60811-3-1
Loss of Mass (100°C, 7 days)	Mg/cm ²	<0.5	KIIL Internal
Water absorption (gravimetric method), @ 85°C, 14 days	Mg/cm ²	<0.5	KIIL Internal
Elongation test at low temperature (-30°C)	%	> 20	ASTM-D-638

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

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

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PROCESSING CONDITIONS :

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

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 & 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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