



Ddev Plastiks Industries Limited

An ISO 9001:2015 company
TECHNICAL DATA

Flame retardant HDPE Sheathing / Jacketing Compound:

KI – SC – 0366 FR BK

DESCRIPTION :

KI-SC-0366 FR BK is a Black halogen free flame retardant High molecular weight, High density polyethylene (HDPE) sheathing / jacketing compound is well suited for control and power cables.

Properties	Unit	Typical Value	Test Method
Density of Compound	gm / cm ³	1.23	ASTM D-792
Melt flow index @ 190°C / 2.16 kg_load	gm / 10 min	0.6	ASTM D-1238
Tensile Strength at break (Speed 50mm/min)	MPa	> 15	ASTM-D-638
Elongation at Break (Speed 50mm/min)	%	> 450	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 ¹⁵	ASTM-D-257
Electric Strength	kV/mm	> 10	IEC 60243-1
Pressure Test (@115°C,6hr)	%	<10%	IEC 60811-3-1
Hardness	Shore D	59 - 60	ASTM-D-2240
Limiting Oxygen Index	%	28	ASTM-D-2863

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	160 - 180
Head	180 - 200
Die	210

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 top of 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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