



Crosslinkable Semi Conductive Compound For CCV

KI - XLC - 09

## CROSSLINKABLE SEMICONDUCTIVE SHIELDING COMPOUND FOR POWER CABLE

### DESCRIPTION

KI-XLC-09 is a specially formulated, cross linkable polyethylene copolymer semiconductive compound for conductor shielding and bonded insulation shielding of medium voltage XLPE power cables. It is suitable for both tandem and triple common head extrusion process in steam, or dry curing system.

### SPECIFICATIONS

Cables with conductor and bondable insulation, shielding of KI-XLC-09 when made using standard manufacturing and test procedure meet the following cable specifications :

- IEC – 60502
- NEMA – WC – 7
- AEIC – CS – 5 / AEIC – CS5
- IS – 7098 – II

### TYPICAL PROPERTIES

Properties	Unit	Typical Value	Test Method
Density	gm / cm <sup>3</sup>	1.10	ASTM –D-792
Tensile Strength	MPa	16	ASTM –D-638
Variation in Tensile Strength*	%	< 20	IEC-60811-1-2 cl-9
Elongation at break	%	200	ASTM–D-638
Variation in elongation at break*	%	< 20	IEC-60811-1-2 cl-9
Hot elongation @200°C, 20N/cm <sup>2</sup>	%	45	IEC-60811-1-2 cl-9
Shore D Hardness	–	55	ASTM–D-2240
Moisture Content	ppm	< 300	Karl Fischer
DC Volume Resistivity @ 25°C	Ohm-cm	< 50	ASTM–D-991
DC Volume Resistivity @ 90°C	Ohm-cm	< 1000	ASTM–D-991

\* After Heat ageing at 135°C for 168 hours.

\* On moulded sheet at 180°C / 20 min.



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## PRE DRYING

Dehumidified hopper drying at 60°C - 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.

## RECOMMENDED PROCESSING CONDITIONS

Position	Temperature (°C)
Barrel	95 – 115
Head	110 - 112
Die	115
Screw	70 - 80

## PACKAGE

500 & 650 Kgs Corrugated Boxes with PE liners, Other packing to customers Specific requirements are also available.

## STORAGE

Storage should be in cool and dry place. Boxes should be kept on 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.*