

TECHNICAL DATA

Peroxide Based Super Clean XLPE Compound For Continuous Vulcanization Line: KI – XL – 8503S

DESCRIPTION :

KI-XL-8503S is a low density, cross-linkable (peroxide based) polyethylene compound developed specially for continuous Vulcanization process to produce medium and high voltage power cables (up to 66 KV). It contains extremely low level of contamination; proper balance of anti-oxidant and peroxide ensures thermal stability during and after extrusion and optimum cure levels.

SPECIFICATIONS :

KI-XL-8503S combination meets requirements as applicable under following standards, when processed using sound extrusion practice and testing procedure;

- IEC 60502 / 60840
- HD 620-S1

TYPICAL PROPERTIES :

Property	Unit	Typical Value	Test Method
Density	gm / cm ³	0.920	ASTM-D-792
Tensile Strength	MPa	>13	ASTM D-638,
Elongation at break	%	> 300	ASTM D-638,
Hot elongation @200°C, 20N/cm ²	%	< 60	IEC-60811-507
Permanent Set after 5 Min.	%	< 5	IEC-60811-507
Variation in Tensile Strength*	%	< 20	IEC-60811-401
Variation in elongation at break*	%	< 20	IEC-60811-401
Contamination	No./500 g. granules	<200µ<500µ>500µ 10-0-0	By Optical Control Systems (KIIL)

* After Heat Ageing at 135°C for 168 hrs.

* On moulded sheet of 1.5 mm at 180°C / 20 min.

ELECTRICAL PROPERTIES :

Property	Unit	Typical Value	Test Method
Di-Electric Constant @25°C	-	2.3	ASTM-D-150
Dissipation Factor @25°C	-	0.0004	ASTM-D-150
Di-electric Strength	KV/mm	> 25	ASTM-D-149
DC Volume Resistivity @ 25°C	Ohm-cm	1 X 10 ¹⁶	ASTM-D-257

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PROCESSING GUIDELINES :

During extrusion in a typical CCV line, following temperature profile is suggested.

Position	Temperature (°C)
Barrel	95 – 115
Head	115
Die	115
Screw	90

PACKAGE : 450 / 550 / 800/ 875 Kg in PE Liner and Corrugated Paper boxes.

STORAGE : Shelf life of the product is 12 months from the date of production

subject to following conditions:

Storage shall take place indoors at temperature not generally exceeding

25 deg.C. Box should be kept away from direct sunlight and weathering.

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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