



## KALPENA INDUSTRIES LIMITED

**Peroxide Based XLPE Compound For  
Continuous Vulcanization Line**

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**KI - XL - 8503**

### DESCRIPTION :

KI-XL-8503 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 33 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.

### TYPICAL PROPERTIES :

Property	Unit	Typical Value	Test Method
Density	gm / cm <sup>3</sup>	0.922	ASTM-D-792
Tensile Strength	MPa	15 - 18	ASTM D-638, IEC-60811-1-2
Variation in Tensile Strength*	%	< 20	IEC-60811-1-2
Elongation at break	%	> 500	ASTM D-638, IEC-60811-1-2
Variation in elongation at break*	%	< 20	IEC-60811-2-1
Hot elongation @200°C, 20N/cm <sup>2</sup>	%	65	IEC-60811-1-2

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

\* On moulded sheet 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 <sup>16</sup>	ASTM-D-257



## **PROCESSING GUIDELINES :**

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

<b>Position</b>	<b>Temperature (°C)</b>
Barrel	95 – 115
Head	115
Die	115
Screw	90

**PACKAGE** : 450 / 600 / 875 Kg in PE Liner and Corrugated Paper boxes.

**STORAGE** : Storage shall take place indoors at temperature not generally exceeding 25°C. Box should be kept away from direct sunlight and weathering.

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*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.*