



KLJ POLYMERS & CHEMICALS LIMITED

Peroxide Based XLPE Compound For CV Line

KLJ-PX-11

Description:

KLJ-PX-11 is based on Low density, Cross Linkable Poly-Ethylene Compound for continues vulcanization process to produce medium and high voltage power cable up to 11 KV.

Specifications:

KLJ-PX-11 Compound meets the following specifications, when processed using sound extrusion and testing processer..

IEC – 60502/ 60840.

HD-620-S1

IS-7098 (Part-II)

Physical Properties: (Typical)

Sr.No	Parameter	Unit	Test Method	Specification	KLJ PX 11
01	Density	gm/cm ³	ASTM D 792	-	0.922
02	Tensile Strength (min.)	Mpa	IS 10810 Part-7	12.5	15 -18
03	Elongation at break (min.)	%	IS 10810 Part-7	200	400
04	Variation in properties after ageing		@ 135±3 °C for 7 days		
A	Tensile Strength	%	IS 10810 Part-11	±25	< 20
B	Elongation at break	%	IS 10810 Part-11	±25	< 20
05	Hot Set @ 200°C, 20N/cm ² (max.)		IS 18010 Part-30	175	65
	On moulded sheet @ 180°C for 20 minutes	%			
06	Permanent Set after cooling (max.)	%		15	5
07	DC Volume Resistivity @ 25°C (min)	Ohm-cm	IS-33 96	1 x 10 ¹⁴	1 x 10 ¹⁶
08	Moisture Content (max.)	Ppm	ASTM D-1045	-	200
09	Dielectric Constant (max) @ 25°C		IEC-60250	2.3	2.2
10	Dissipation Factor (max) @ 25°C		IEC-60250	0.0004	0.0004
11	Dielectric Strength (min)	KV/mm	IEC-60243	22	25

Processing Guidelines:

During extrusion in typical CCV line following temperature profile is suggested. Typical process parameters are recommended as under:
Barrel -1: 95 to115°C, Head-2 : 115 ± 1°C, Die -3 : 115 ± 1°C, Screw 4 : 90 ± 2°C,

Packaging:

- 450/500/600/875 kg in PE liner and corrugated paper boxes.

Storage:

- Storage shall take place indoors at temp. below 23°C with dry conditions

Safety:

KLJ-PX- 11 are not classified as dangerous preparation.

The products are supplied in the form of free-flowing granules of approx. 2-3 mm size and can be readily handled with commercially available equipment. Handling and transport of the products may generate some dust and fines, which constitute a potential hazard for dust explosion. All metal parts in the system should, therefore, be properly grounded. Properly designed equipment and good housekeeping will reduce the risk. Inhalation of any type of dust should be avoided as it may cause irritation of the respiratory system.

The product is intended for industrial use only. MSDS is available on request.

Disclaimer:

- The specifications given are the guidelines only.
- Above compound is suitable to run on different machines; however some adjustments may be required on individual machine.
- All properties are tested as per ASTM/IS/IEC standards.
- Any data may change without prior information.

- The customers are advised to check the quality, prior to commercial use. There is no guarantee and/or warrantee what so ever, after processing.