KLJ-PX (PEROXIDE BASED XLPE COMPOUNDS)

Description: KLJ-PX-11 & 33 is based on Low Density, Cross Linkable Poly-Ethylene Compound for Continuous Vulcanization process to produce medium and high voltage power cable up to 33 KV.

Specifications: KLJ-PX-11 & 33 Compound meets the following specifications, when processed using sound extrusion and testing processes.

IEC – 60502/ 60840.,HD-620-S1 ,IS-7098 (Part-II)

PHYSICAL PROPERTIES (TYPICAL)

PARAMETER	UNIT	TEST METHOD	SPECIFICATION	KLJ PX 11	KLJ PX 33
Density	g/cm^3	ASTM D - 792	—	0.922	0.922
Tensile Strength (Min.)	Mpa	IS 10810 Part-7	12.5	15 -18	15 -18
Elongation at Break (Min.)	%	IS 10810 Part-7	200	400	400
Variation in properties after ageing at 135±3 °C for 7 days					
Tensile Strength	%	IS 10810 Part-11	±25	< 20	< 20
Elongation at Break	%	IS 10810 Part-11	±25	< 20	< 20
Hot Set at 200°C, $20N/cm^2$ (Max.) On moulded sheet at180°C for 20 minutes	%	IS 10810 Part-30	175	65	65
Permanent Set after cooling (Max.)	%	IS 10810 Part-30	15	5	5
DC Volume Resistivity @ 25°C (Min.)	Ω-cm	IS-3396	1×10^{14}	1×10^{16}	1×10^{16}
Moisture Content (Max.)	ppm	ASTM D-1045	—	200	200
Dielectric Constant at 25°C (Max.)	—	IEC-60250	2.3	2.2	2.2
Dissipation Factor at 25°C (Max.)	—	IEC-60250	0.0004	0.0004	0.0004
Dielectric Strength (Min.)	KV/mm	IEC-60243	22	25	25
Impuriy Diameter					
0.175 – 0.250	mm		⩽5	—	2
>250	mm		0	—	0