



Data Sheet XLPE

Granule Type: **NSXLP93/NSCAT93**

silane Cross-linkable Polyethylene

Description

NSXLP93 is silane moisture cure, cross-linkable natural polyethylene compound for wire & cable applications. NSXLP93 is designed for Insulation of low voltage cables. (Up to 1Kv). 5 parts of NSCAT93 should be mixed as catalyst with 95 parts of NSXLP93 and then cure Addition of NSCAT93 to NSXLP93 lead to excellent thermo-oxidative stability also in contact with copper as well as aluminum.

Physical & Mechanical Properties	Unit	Standard and Test Method	Typical value
Density	gr/cm ³	ISO1183	0.930 ± 0.05
Melt Flow Rate(190 °c , 5kg)	gr/10min	ASTM D1238	3 ± 1.0
Tensile strength	Mpa	ISO527	>16
Elongation (break)	%	ISO527	>400
Hot set test(200°c & 0.2Mpa) Elongation Under Load	%	IEC60811-1-1	≤90
Hot set test(200°c & 0.2Mpa) Permanent Deformation	%	IEC60811-1-1	≤10
Change of Tensile after Ageing (168h, 135 °c)	%	IEC60811	<15
Electrical Properties			
Dielectric Constant (50Hz)	-	IEC60250	<2.3
Dissipation Factor (50Hz)	-	IEC60250	<0.0005
DC Volume Resistivity	Ohm.cm	IEC60093	10P
Dielectric strength	Kv/m	IEC60243-1	>22
Features	Excellent Processing	-	
Packaging	25 kg bags	-	
Processing Method	Extrusion	-	
Additives	Anti-Oxidant Metal Deactivator		
Color	Natural	-	

Processing

NSXLP93/NSCAT93 are suitable for most equipment designed for PVC/PE extrusion. Screw with L/D more than 20 is recommended. The melt temperature should be in the range of 200°c to 220°c. The processing conditions depend on L/D, design of screw and barrel, compression ratio and so on. As a first guide, the temperature profile of extruder is recommended to be 210°c and 220°c respectively.

Storage

This product should be stored in dry places away from sunlight.