

Crosslinkable Polyethylene Compound (XLPE)

Product Description

Crosslinking improves the mechanical and thermal properties of polyethylene, making it suitable for various applications especially as insulation for wires and cables. The excellent electrical properties, easy installation, minimal maintenance, low dielectric losses and low environmental impact of XLPE cables are the primary reasons for the continuing growth in their adoption by electricity transmission system operators and distributors worldwide. SPLINK-M40 is a peroxide curable natural LDPE which has the required clean attributes for insulation applications.

Applications

SPLINK-M40 is designed for insulation of AC power cables with rated voltages up to 43 kV.

Specifications

SPLINK-M40 meet the requirements of the below standards when processed using sound handling, extrusion and curing practices as well as appropriate testing procedure

IEC 60502-2

IEC 60840

General Features

Good processability, Good scorch safety, High thermo-oxidative stability, Assured cleanliness

Physical & Mechanical Properties	Standard & Test Method	Unit	Value
Density	IEC 60811-606	gr/cm ³	0.921
Melt Flow Index (MFI) (190 °C/2.16 kg)	IEC 60811-511	g/10 min	2
Tensile Strength	IEC 60811-501	MPa	19
Tensile Strain		%	420
Ageing (135°C, 7 days)			
Variation of Tensile Strength	IEC 60811-401	%	=< 20
Variation of Tensile Strain		%	=< 20
Hot Set (200°C, 0.20 MPa)			
Elongation under load (200 °C, 0.3 MPa)	IEC 60811-507	%	70
Permanent Elongation After cooling		%	5
Electrical Properties			
DC Volume resistivity	IEC 62631	Ohm.cm	10 ¹⁶
Dielectric Constant	IEC 60250		2.3
Dielectric Strength	IEC 60243	kV/mm	30
Dissipation Factor @ 50 Hz	IEC 60250		0.0003

Note: The properties in the table are typical and should not be considered as standardized.

Processing Guidelines

SPLINK-M40 can be processed without any problem if it is handled with care in a closed system like clean room conditions. The melt temperature during extrusion is recommended to be kept between 120 to 130 degrees Celsius.

Storage

Original packages should be kept closed and stored in dry and clean conditions, away from direct sunlight in the temperature range between 10 to 30 °C

Packaging

Tightly sealed 600 KG octabins