

Polylink Polymer PP 411-401 (CL)

Crosslinked Polyethylene

Polylink Polymers (India) Ltd.

Message:

A Silane Grafted Crosslinkable Polyethylene Compound, Curable by exposure to moisture, for insulation of Power Cables and possessing excellent extrudability at output rate.

PP 411 has been specially developed for cables upto 11KV. The special formulation and compounding techniques used ensure that the contamination level is kept within the required limits for this voltage grade.

PP 411 has general Melt Flow Index range of 0.5-0.8, which provides firm stability during extrusion, especially for the thick insulation required for high voltage.

Silane Grafted Crosslinkable Polyethylene For Medium Voltage Power Cable Insulation.

General Information			
Features	Crosslinkable		
	Good processing stability		
Uses	Cable sheath		
	High voltage insulation		
	Medium voltage insulation		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.55	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	18.0	MPa	IEC 60811
Tensile Strain (Break)	650	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	6.0	%	IEC 60811
Change in Tensile Strain at Break in Air (135°C, 168 hr)	-6.0	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset			IEC 60811
Elongation underload	110	%	IEC 60811
Permanent elongation after cooling	5.0	%	IEC 60811
Power factor (23°C) ¹	4.00E-4		IEC 250
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (20°C)	1.4E+16	ohms · cm	IEC 60502
Dielectric Strength	25	kV/mm	IEC 60243-1
Dielectric Constant	2.20		IEC 60250
Extrusion	Nominal Value	Unit	

Cylinder Zone 1 Temp.	160	°C
Cylinder Zone 2 Temp.	170	°C
Cylinder Zone 3 Temp.	180	°C
Cylinder Zone 4 Temp.	190	°C
Adapter Temperature	200	°C
Die Temperature	210	°C

Extrusion instructions

Screw water temperature : 60 to70°CScreens : 30,80, 30(mesh apertures per linear inch)L/D Ratio: 20Compression: 3.0:1

NOTE

1.
- 50 Hz

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