

Cross-linkable Polyethylene Compound (XLPE)

Product Description:

BCX 1230 is a cross-linkable polyethylene compound, specially designed for low voltage power cables especially the overhead self-supporting cable (up to 6 KV). This product meet ASTM D1248, IEC 60502, ICEA S-66-524 and NFC 33209 standards.

General		
Material Status	Commercial: Active	
Availability	Middle East, Europa	
Additive	Unspecified Additive	
Features	Clean/High Purity .Cross-linkable .Good process ability	
Uses	Appliance Wire jacketing .Cable jacketing .Insulation	
Appearance	Natural color	
Forms	Pellets	
Packaging	25Kg moisture resistance sacks	
Processing Method	Extrusion	
Physical	Nominal Value Unit	Test Method
Density	0.920 g/cm ³	ISO 1183
Melt Mass-Flow Rate(MFR)(190 °C/5 kg)	4.0 g/10 min	ISO 1183
Mechanical	Nominal Value Unit	Test Method
Tensile Strength(Yield)	24±2 MPa	IEC 60811-1-1
Tensile Strain(Break)	Min. 30%	IEC 60811-1-1
Thermal	Nominal Value Unit	Test Method
Hot Set		
200°C, Elongation under load, 0.20 MPa	< 80 %	
200°C, Permanent deformation, 0.20 MPa	< 10 %	
Ageing	Nominal Value Unit	Test Method
Retention of Tensile Strength135oC, After Ageing 168 hr	>85 %	
Electrical	Nominal Value Unit	Test Method
Dielectric Constant (50 Hz)	< 2.9	IEC 60250
Dissipation Factor (50 Hz)	< 0.00050	IEC 60250
DC Volume Resistivity	1016 Ω.cm	IEC 60093
Dielectric Strength	> 22 kV/mm	IEC 60243-1

These products can be cross-linked by immersion in hot water or exposed to low pressure steam at a temperature up to 90°C. This time period may be varied due to the humidity, thickness of insulation, reel size and temperature. Recommended Time to reach Hot Set elongation value of 100% at different insulation thickness is listed here: