

TRXLPE Insulation Performance Specifications

Suitable for Use for the following specifications:

- AEIC CS8
- ICEA S-94-649
- ICEA T-31-610
- ICEA T-34-664 as applicable for TRXLPE insulated concentric neutral cable
- UL 1072 MV-90 or MV-105
- CSA Standard C68.5-07

ICEA T-34-664 as applicable for TRXLPE insulated concentric neutral cable must conform to the following chart:

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUE
Density(Base Resin)	g/cm ³	ASTM D1505	0.921
Tensile Strength	kg/cm ²	ASTM D638	200
Elongation	%	ASTM D638	550
Oven Aging @ 135°C, 7 days	-	-	-
Tensile Strength Retention	%	ASTM D638	> 90
Elongation Retention	%	ASTM D638	> 90
Hot/Set @ 200°C, 20N/cm ²	-	IEC-60811-2-1	-
Hot Elongation	%	-	< 100
Permanent Set	%	-	< 5
Cure Behavior @ 180°C (MDR)	-	HCY-I-24196	-
Ts1	minute	-	> 1
Tc90	minute	-	< 5
Mh-MI	Lb.in	-	> 4.5
Moisture	ppm	HCY-I-24205	< 200
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUE
Dielectric Constant @ 1 MHz	-	ASTM D150	< 2.3
Dissipation Factor @ 1 MHz	-	ASTM D150	< 0.0005
Dielectric Strength	kV/mm	ASTM D149	> 20
DC Volume Resistivity	ohm cm	ASTM D257	> 10
TREE RESISTANCE	UNIT	TEST METHOD	VALUE
Relative Bow-tie Tree Size	%	Internal	< 15
Resistance to Water Tree	-	-	-
Growth @25°C, 30days	%	Internal	< 0.1