

REXL LN15 / CN15

XLPE for Low Voltage Cables

27.05.2024 RLC Rev.00

TECHNICAL DATASHEET

REXL LN15 is a silane crosslinkable compound system specially designed for insulation of low voltage energy cables. REXL LN15 is used together with REXL Catalyst CN15 in the ratio of 95:5. The crosslinking step is carried out at ambient conditions and in hot water or exposure to steam.

General Properties

Color	Natural
Additives	Antioxidant
Typical Characteristics	High speed production Good Processability Fast Curing Speed Excellent Surface Finish Weather Resistance
Applications	Insulation of low voltage energy cables, range up to 10 kV Jacketing

Physical & Thermal Properties

Property	Unit	Standard	Typical Values
Density	g/cm ³	ISO 1183	0,92
MFI (190°C, 2,16 Kg)	g/10min	ISO 1133	1,5
Tensile Strength	Mpa	IEC 60811-501	> 15
Tensile Strain at Break	%		> 400
Hot Set Test	Elongation Under Load % (200°C, 0,3 Mpa)	IEC 60811-507	70
	Permanent Deformation % (200°C, 0,3 Mpa)		<5
gel content	%	NF C33-209:1996	> 65

Electrical Properties

Dielectric Constant (50Hz)	IEC 62631-2-1	2,6
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Crosslinking

REXL products can be crosslinked at room temperature or by immersion in hot water and exposed to low pressure steam at max. 90 °C

<u>Insulation Thickness (mm)</u>	<u>Time</u>	<u>Condition</u>
0,7 mm	< 2 day	Room Temperature
1,8 mm	< 2 h	90 °C Water Bath

Extrusion

	<u>Temperature (°C)</u>
Zone 1	150
Zone 2	170
Zone 3	180
Zone 4	190
Die head	200

The temperature of the zones can vary depending on the extruder, equipment, and cable/wire thickness.

The melted polymer temperature during extrusion should ideally remain below 220 °C. This helps ensure a stable process and a smooth cable surface.

Packaging

XLPE	25 Kg	Moisture resistance packs
Catalyst	1,25 Kg	Moisture resistance packs

storage

REXL LN15 and REXL CN15 should be stored in dry conditions and protected from direct sunlight.

REXL LN15 can be stored for 12-18 months and REXL CN15 for 15-18 months after production date, at 10-30 °C in original packages.

Note: The properties shown are typical values for the product mentioned above. We can not guarantee for the final products due to additional processing at your plant which is not under our control.