



SI-XLPE-LV-DEV

Silane-Crosslinkable PE for LV Cable – R&D Platform

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

An internal silane-XLPE R&D platform. The cited 95/5 Visico/Ambicat benchmark is a proprietary matched system and cannot be transferred as the mixing ratio or performance of a Jam-resin-based formulation. Applications: LV power-cable insulation; Building wire insulation; Selected industrial wire. Key features: Two-component 95/5 concept; Moisture-cure crosslinking; Natural and black development variants.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
Base/catalyst ratio	Validated formulation and gNo universal ratio; 95/5 is benchmark-system-specific		
Density of mixed system	ISO 1183-1	Benchmark ≈ 0.923; JPI target TBD	g/cm³
Melt flow rate, base, 190°C/2.16 kg	ISO 1133-1	Benchmark ≈ 1.0; JPI target TBD	g/10 min
Tensile strength after cure	IEC 60811-501	To applicable cable standard	MPa
Elongation after cure/ageing	IEC 60811-501 / 401	To applicable cable standard	%
Hot-set elongation / permanent set	IEC 60811-507	To applicable cable standard	%
Gel content after cure	ASTM D2765 or validated IEC/customer method	To be correlated with hot set	%
Scorch / shelf stability / extrusion surface	Validated cable-line protocol	To be established	
Electrical properties	Named IEC cable standard	To applicable cable standard	

QUALIFICATION & USE

- Values are development targets, not a sales specification or certificate of analysis.
- Final limits require independent production-lot validation using the cited methods and controlled specimen preparation.
- Regulatory, food-contact, medical, UL, IEC, ATEX or OEM compliance applies only when confirmed in a grade-specific document.