



LDPE based High Performance Compound for MV cable insulation

Product Description

ZARLNK™ XL 4201 MASTERBATCH is compounded to provide best electrical and di-electrical strength for insulation of power cables such as peroxide XLPE for medium voltage cables . This compound is offering excellent resistance against water tree in long term operation.

General Information

Applications • Power cable Insulation

Additive • Anti-Static : NO • Processing Aid : YES • Slip : NO • Thermal Stabilizer : YES

Form(s) • Pellets

Basic Properties

	<i>Typical Value</i>	<i>Test Method</i>
Density	0.92 gr/cm ³	ASTM D1505 - ISO 1183
Melt Index (190°C/2.16 kg)	2.4 gr/10 min	ASTM D1238 - ISO 1133

Thermal and Mechanical Properties

	<i>Typical Value</i>	<i>Test Method</i>
Melting Point	115-120 °C	ASTM D 2117
Water Absorption (Gravimetric)	Less than 0.03 mg/cm ²	IEC 60811-402
DC Volume Resistivity (23°C)	>10 P Ohm.cm	IEC 62631
Tensile strength at break	14 N/mm ²	ISO 527-2
Elongation at break	500 %	ISO 527-2
Water Tree Growth Rate	11 %	ASTM D.6097
Water Tree Relative Size	26 %	ASTM D.6097
Dielectric constant @1MHz	2.3	ASTM D1531
Dissipation Factor @1MHz	<0.0003	ASTM D1531

Notes

This product is not intended for use in medical applications and should not be used in any such applications. Typical properties: these are not to be construed as specifications.

Value reported is an estimate based on ZARPOLYMER correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.





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Mixing with liquid Anti-oxidants and melted DCP (or liquid peroxide) should be done in clean environment and mixer to avoid dust and impurities ingress the pellets and compound.

Final XLPE product by proper mix of additives will comply IEC 60502-2 requirement. For exact process details , please contact ZAR Polymer technical department.

Packaging

Package: 500 kg to 1200 kg in Octabins or strong reinforced Jumbo-Bags (Upon request)

Processing Statement

1. Values are typical and should not be interpreted as specifications. Values may change with future development.
2. All molded properties were measured on compression molded plaques