

SABIC® LDPE 2102TX00

Low density polyethylene for Wire & Cable extrusion

Description

SABIC® LDPE 2102TX00 is a Low Density Polyethylene natural resin designed for the production of Medium/High Voltage power cable insulation using the direct peroxide addition.

SABIC® LDPE 2102TX00 is a non-additivated and non-stabilized LDPE. It exhibits excellent cleanliness and consistent purity.

Sufficient antioxidant should be added to meet specific ageing requirements.

Application

- Peroxide cross-linkable insulation for Medium/High Voltage power cable.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

Typical data.

Properties	Units SI	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 190 °C and 2.16 kg	dg/min	1.9	ISO 1133
Density	kg/m ³	921	ISO 1183
Mechanical properties			
Tensile test stress at yield	MPa	9	ISO 527-2
stress at break	MPa	13	
strain at break	%	850	
tensile modulus	MPa	175	
Modulus of elasticity	MPa	250	SABIC method
Hardness Shore D	-	45	ISO 868
Thermal properties			
Vicat softening temperature at 10 N (VST/A)	°C	89	ISO 306
DSC test melting point	°C	108	DIN 53765
crystallization temperature	°C	97	SABIC method
Electrical properties			
Volume resistivity	Ohm.cm	8.5E15	ASTM D 257
Dissipation factor at 60 Hz	-	5.0E-4	ASTM D 150
Dielectric constant at 60 Hz	-	2.2	ASTM D 150
Dielectric strength at 2000 V/sec	V/µm	>30	ASTM D 149