

SABIC® LDPE 2102X0

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2102X0 is a Low Density Polyethylene natural resin typically used for the production of Medium/High Voltage power cable insulation using the direct peroxide addition.

SABIC® LDPE 2102X0 is a non-additivated and non-stabilized LDPE. It exhibits very high 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.

General Information			
Features	Clean/High Purity		
	Crosslinkable		
	Foamable		
	Good Melt Strength		
	Low Density		
Uses	Foam		
	High Voltage Insulation		
	Medium Voltage Insulation		
	Wire & Cable Applications		
Processing Method	Extrusion		
	Foam Extrusion		
	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	45		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	175	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	9.00	MPa	
Break	13.0	MPa	
Tensile Strain (Break)	850	%	ISO 527-2
Modulus of Elasticity	250	MPa	Internal Method
Heat of Fusion	110	J/g	DIN 53765
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	89.0	°C	ISO 306/A
Melting Temperature (DSC)	108	°C	DIN 53765
Peak Crystallization Temperature (DSC)	97.0	°C	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.5E+15	ohms·cm	ASTM D257
Dielectric Strength ¹	> 30	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.20		ASTM D150
Dissipation Factor (60 Hz)	5.0E-4		ASTM D150
NOTE			
1.	2000 V/sec		

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