

SABIC® LDPE 2102X0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2102X0 is a grade typically used in foam applications.

Application

SABIC® LDPE 2102X0 can be typically used for all types of foam, produced with chemical blowing agents or physical gases, X-linked and non X-linked.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	1.9	dg/min	ISO 1133
Density	921	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test			
stress at break	13	MPa	ISO 527-2
strain at break	850	%	ISO 527-2
tensile modulus	175	MPa	ISO 527-2
stress at yield	9	MPa	ISO 527-2
Modulus of elasticity	250	MPa	SABIC method
Hardness Shore D	46	-	ISO 868
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	89	°C	ISO 306
DSC test			
avg. heat of fusion	110	J/g	DIN 53765
crystallization temperature	97	°C	DIN 53765
melting point	108	°C	DIN 53765
ELECTRICAL PROPERTIES			
Volume resistivity	8.5E15	Ω.cm	ASTM D257
Dissipation factor at 60 Hz	5.0E-4	-	ASTM D150
Dielectric constant at 60 Hz	2.2	-	ASTM D150
Dielectric strength at 2000 V/sec	>30	V/μm	ASTM D149