

SABIC® 2102X0

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.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D1505

Melt Flow	1.9 g/10 min @Load 2.16 kg, Temperature 190 °C	1.9 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
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Mechanical Properties	Metric	English	Comments
Hardness, Shore D	46	46	ISO 868

Tensile Strength at Break	13.0 MPa	1890 psi	ISO 527-2
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Tensile Strength, Yield	9.00 MPa	1310 psi	ISO 527-2
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Elongation at Break	850 %	850 %	ISO 527-2
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Modulus of Elasticity	0.250 GPa	36.3 ksi	SABIC method
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Tensile Modulus	0.175 GPa	25.4 ksi	ISO 527-2
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Electrical Properties	Metric	English	Comments
Volume Resistivity	8.50e+15 ohm-cm	8.50e+15 ohm-cm	ASTM D257

Dielectric Constant	2.2 @Frequency 60 Hz	2.2 @Frequency 60 Hz	ASTM D150
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Dielectric Strength	>= 30.0 kV/mm	>= 762 kV/in	2000 V/sec; ASTM D149
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Dissipation Factor	0.00050 @Frequency 60 Hz	0.00050 @Frequency 60 Hz	ASTM D150
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Thermal Properties	Metric	English	Comments
Heat of Fusion	110 J/g	47.3 BTU/lb	DIN 53765

Melting Point	108 °C	226 °F	DIN 53765
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Crystallization Temperature	97.0 °C	207 °F	DIN 53765
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Vicat Softening Point	89.0 °C	192 °F	at 10 N (VST/A); ISO 306
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