

Lexan* F2500 Sheet

Product Datasheet

Description Lexan* F2500 sheet is a transparant Polycarbonate sheet which is Eco FR according the VDE norm passing V0 at 2.0mm. In addition to good flammability performance, it offers excellent impact resistance, high optical quality, good stiffness and strength and ease of processing, making it an excellent candidate for a wide variety of applications in the electrical, electronic and transportation.

Typical Property Values

Physical Density ISO 1183 g/cm³ 1.20 Water absorption, Equilibrium ISO 62 % 0.35 Mechanical Tensile strength, Tensile strength, ISO 527 MPa 2000 Tensile strength, Tensile elongation, yield ISO 527 MPa 2000 Tensile elongation, preak % 110 Flexural strength, yield ISO 178 MPa 2350 Izod Notched Impact 23 °C ISO 178 MPa 2350 2350 2350 Izod Notched Impact 23 °C ISO 179/1A KJ/m2 40 37 -Gardner Impact 23°C ISO 179/1A KJ/m2 >40 Thermal Vicat Softening Temp, Rate B/ 120 ISO 306 °C 145 145 Heat Deflection temperature 0.45 MPa ISO 75/Be °C 138 Pass Ball Pressure Test 125 °C IEC 335-1 Pass Pass Ball Pressure Test 125 °C IEC 335-1 Pass 96 High Avoltage Arc Tracking Rate UL 746A sec 44 Comparative Tracking Index, IEC 112/3 V <th>Property</th> <th>Test Method</th> <th>Unit</th> <th>Value</th>	Property	Test Method	Unit	Value
Water absorption, Equilibrium ISO 62 % 0.35 Mechanical Tensile strength, Tensile modulus ISO 527 MPa 65 Tensile elongation, yield ISO 527 MPa 2000 Tensile elongation, break % 110 67 Flexural strength, yield ISO 178 MPa 115 Flexural modulus ISO 178 MPa 2350 12od Notched Impact 23 °C ISO 180/1A kJ/m2 40 -30 °C - kJ/m2 37 -Gardner Impact 23°C ISO 178 MPa 2350 Vicat Softening Temp, Rate B/ 120 ISO 306 °C 145 Thermal Thermal 500 75/Be °C 145 Vicat Softening Temp, Rate B/ 120 ISO 306 °C 145 Heat Deflection temperature 0.45 MPa ISO 75/Be °C 128 Pass ISO 527 % 0.5-0.7 Pass Ball Pressure Test 75 °C IEC 335-1 Pass Pass Ball Pressure Test 125 °C IEC 3527 %	Physical			
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Tensile strength, ISO 527 MPa 65 Tensile elongation, yield ISO 527 MPa 2000 Tensile elongation, break % 110 Flexural strength, yield ISO 178 MPa 2350 Izod Notched Impact 23 °C ISO 178 MPa 2350 Izod Notched Impact 23 °C ISO 178 MPa 2350 -30 °C KJ/m2 37 - -Gardner Impact 23°C ISO 179/1A KJ/m2 >40 Thermal Vicat Softening Temp, Rate B/ 120 ISO 306 °C 145 Heat Deflection temperature 0.45 MPa ISO 75/Be °C 138 Thermal Xizat Softening Temp, Rate B/ 120 ISO 306 °C 145 Heat Deflection temperature 0.45 MPa ISO 75/Be °C 138 Thermal conductivity ASTM C 177 W/m°C 0.2 Ball Pressure Test 75 °C IEC 335-1 Pass Ball Pressure Test 125 °C IEC 335-1 Pass Moid shrinkage ISO 527 % 0.5-0.7 Yoltime Resistivity U.746A sec<	Water absorption, Equilibrium	ISO 62	%	0.35
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Tensile elongation, break % 110 Flexural strength, yield ISO 178 MPa 115 Flexural modulus ISO 178 MPa 2350 Izod Notched Impact 23 °C ISO 180/1A kJ/m2 40 -30 °C kJ/m2 37 - -Gardner Impact 23°C ISO 179/1A kJ/m2 >40 Thermal Vicat Softening Temp, Rate B/ 120 ISO 306 °C 145 Heat Deflection temperature 0.45 MPa ISO 75/Be °C 138 Thermal conductivity ASTM C 177 W/m°C 0.2 Ball Pressure Test 75 °C IEC 335-1 Pass Ball Pressure Test 75 °C IEC 335-1 Pass Mold shrinkage ISO 527 % 0.5-0.7 Thermal expansion ASTM D696 1/ °C 7.10^-5 Electrical High Voltage Arc Tracking Rate UL 746A sec 44 High Voltage Arc Tracking Index, IEC 112/3 V 200 Volume Resistivity 27 Surface Resistivity IEC 93 Ohm 210 ¹⁵ 10 ¹⁵	Tensile modulus	ISO 527	MPa	2000
Flexural strength, yield ISO 178 MPa 115 Flexural modulus ISO 178 MPa 2350 Izod Notched Impact 23 °C ISO 180/1A kJ/m2 40 -30 °C kJ/m2 37 -gardner Impact 23°C ISO 179/1A kJ/m2 37 -Gardner Impact 23°C ISO 179/1A kJ/m2 37 -Gardner Impact 23°C ISO 306 °C 145 Heat Deflection temperature 0.45 MPa ISO 75/Be °C 138 Thermal ASTM C 177 W/m°C 0.2 Ball Pressure Test 75 °C IEC 335-1 Pass Ball Pressure Test 125 °C IEC 335-1 Pass Mold shrinkage ISO 527 % 0.5-0.7 Thermal expansion ASTM D696 1/ °C 7.10^-5 Electrical 44 Hot Wire Ignition UL 746A sec 44 High Voltage Arc Tracking Rate UL 746A mm/s 5.2 High Ampere Arc Ign. Surface UL 746A 44 40 Comparative Tracking Index, IEC 93 Ohmcm	Tensile elongation, yield	ISO 527	%	6
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-30 °C kJ/m2 37 -Gardner Impact 23°C ISO 179/1A kJ/m2 >40 Thermal Vicat Softening Temp, Rate B/ 120 ISO 306 °C 145 Heat Deflection temperature 0.45 MPa ISO 75/Be °C 138 Thermal conductivity ASTM C 177 W/m°C 0.2 Ball Pressure Test 75 °C IEC 335-1 Pass Ball Pressure Test 125 °C IEC 335-1 Pass Ball Pressure Test 125 °C IEC 335-1 Pass Mold shrinkage ISO 527 % 0.5-0.7 Thermal expansion ASTM D696 1/ °C 7.10 ⁻⁵ Electrical Hot Wire Ignition UL 746A sec 44 High Voltage Arc Tracking Rate UL 746A mm/s 5.2 High Ampere Arc Ign. Surface UL 746A 44 Comparative Tracking Index, IEC 112/3 V 200 Volume Resistivity IEC 93 Ohm >10 ¹⁵ Dielectric Srtength IEC 60243-1 KV/mm 27 Relative permittivity IEC60250 50Hz 2.7 Flammability Limited Oxygen Index ISO 4589 % 34 Glow Wire Test, 960 °C IEC695-2-12 Pass UL54 VO 2.0mm IEC695-11-10 pass VO 2 m Optical Light Transmission ASTM D1003 % 90	Flexural modulus	ISO 178	MPa	2350
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Light Transmission ASTM D1003 % 90	UL94 V0 2.0mm	IEC695-11-10		pass V0 2 mm
Light Transmission ASTM D1003 % 90	Optical			
		ASTM D1003	%	90
		ASTM D1044		
500g, 100 cycles % Haze 36			% Haze	36

These property values have been derived from Lexan* resin data for he material used to produce this sheet product.

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SABIC Innovative Plastics™

Lexan* F2500 Sheet



Product Datasheet

Processing

Lexan* F2500 sheet is ideally suited to thermoforming. It offers high, deep draw ratios, equal wall thickness distribution, and it can be formed into complex shapes using standard thermoforming equipment. Sandwich type heating systems give the best results. Lexan F2500 sheet has a forming temperature page of at last applies forming a draft page of at last.

range of 185 - 205°C. When forming, a draft angle of at least 3° should be allowed, and post mold shrinkage of 0.5 - 1.0% taken into account.

Pre-drying

It is important to ensure that Lexan F2500 sheets are free of moisture prior to thermoforming. A hot air circulating oven set at 120°C is recommended. Pre-drying times vary from 3-24 hours, depending on sheet thickness.

Assembling

Parts made from Lexan F2500 sheet can be assembled with plastics, metals, rubber and other materials using many types of adhesive bonding, welding and mechanical fastening techniques. Since some of these materials can cause environmental stress cracking, please consult SABIC Innovative Plastics for advice on specific applications.

Painting

For either functional or decorative reasons it may be necessary to apply finish to Lexan F2500 sheets or vacuum formed parts. The product is ideally suited for use with a wide variety of modern decoration techniques. A list of approved paint systems and suppliers is available upon request..

Chemical Resistance

Lexan F2500 sheet has sufficient resistance to most mineral oils, greases, aliphatic hydrocarbons and acids under low or moderate stress levels. In applications where the Lexan F2500 sheet will come into contact with aggressive chemicals, specific (application related) testing is always advised. Effective painting systems can improve chemical resistance

Product Availability

Product code:	Lexan F2500 Sheet
Standard size:	1250 x 2050mm
Gauges:	1.5 to 6.0 mm
Textures:	Polished/Polished
Colors:	Clear 11255
Other colors/sizes	are available by special request.

Lexan* Tough Virtually Polycarbonate Sheet Unbreakable

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