

LEXAN™ MARGARD™ CTGXT SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ MARGARD™ CTGXT is a two-sided hard coated, UV resistant polycarbonate sheet offering high heat resistance, excellent dimensional stability and impact performance combined with superior optical properties for see-through applications. The clarity, ease at die cutting and formability of LEXAN MARGARD CTGXT makes it an excellent candidate for applications like: motor helmet visors, industrial visors and goggles, sport goggles, police helmet visors and sunglasses.

TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Density	ISO 1183	g/cm ³	1.20
Water absorption, 50% RH, 23 °C	ISO 62	%	0.15
Water absorption, saturation, 23°C	ISO 62	%	0.35
MECHANICAL			
Yield stress 50 mm/min	ISO 527	MPa	>60
Yield strain 50 mm/min	ISO 527	%	6
Nominal strain at break 50 mm/min	ISO 527	%	>100
Tensile modulus 1 mm/min	ISO 527	MPa	2300
Flexural strength 2 mm/min	ISO 178	MPa	90
Flexural modulus 2 mm/min	ISO 178	MPa	2300
Taber haze - 100 cycles, 500 gram, CS-10F	ASTM D1044	%	4 - 8
THERMAL			
Vicat softening temperature, rate B/120	ISO 306	°C	145
Temperature of deflection under load (type A), 1.8 MPa, flat	ISO 75-2	°C	127
Thermal conductivity	ISO 8302	W/m.°C	0.2
Coefficient of linear thermal expansion, 23-55°C	ISO 11359-2	1/°C	7x10 ⁻⁵
Ball pressure test 125 ±2°C	IEC 60695-10-2	-	Pass
ELECTRICAL			
Volume resistivity	IEC 60093	Ohm.cm	>10 ¹⁵
Dielectric strength, in oil, 3.2 mm	IEC 60243-1	kV/mm	18
OPTICAL			
Light transmission 0.75 mm	ASTM D1003	%	92
Light transmission 1 mm	ASTM D1003	%	91
Light transmission 2 mm	ASTM D1003	%	91

◆ Some of the property values have been derived from LEXAN™ resin data for the material used to produce this sheet product.

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UV PROTECTION

LEXAN™ MARGARD™ CTGXT sheet has proprietary UV protected surfaces, giving excellent durability to outdoor weathering and comes with a 5 year limited written warranty (see warranty for details).

CHEMICAL RESISTANCE

LEXAN MARGARD CTGXT sheet has sufficient resistance to most moderate chemicals. In applications where it will come into contact with aggressive chemicals, specific (application related) testing of the material is strongly recommended.

PROCESSING

Masking must be removed from the sheet within 6 months after delivery.

PRODUCT AVAILABILITY

TEXTURE	GAUGES (MM)	COLOR
polished/polished	0.75	112
polished/polished	1.00	112
polished/polished	1.50	112
polished/polished	2.00	112

CONTACT US:

SABIC CORPORATE HQ

PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 1 225 8000
F +966 (0) 1 225 9000
E info@sabic.com

AMERICAS

SABIC
Functional Forms
2500 CityWest Boulevard
Suite 100
Houston, TX 77042
USA
Toll-free (800) 323 3783
F (888) 443 2033
E spinside.sales@sabic.com

EUROPE

SABIC
Functional Forms
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 (0)164 293684
F +31 (0)164 293272
E ff.info@sabic.com

PACIFIC

SABIC
Functional Forms
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 3222 4500
F +86 21 6289 8998
E ff.info@sabic.com

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