

# LEXAN™ MARGARD™ CTGXT AF SHEET

## PRODUCT DATASHEET

### DESCRIPTION

LEXAN™ MARGARD™ CTGXT AF (anti-fog) is a coated polycarbonate sheet with anti-fog properties on one side and mar resistance on the other side. The product offers excellent dimensional stability and impact resistance, optical clarity, UV protection, abrasion resistance and fog free time. Is an excellent candidate to offer a superior performance in the visor/eye protection industry. Typical applications include: face shields, motor cycle visors, industrial visors and goggles, sport goggles and sunglasses.

### TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
<b>PHYSICAL</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.20
Water absorption, 50% RH, 23 °C	ISO 62	%	0.15
Water absorption, saturation, 23°C	ISO 62	%	0.35
<b>MECHANICAL</b>			
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
<b>THERMAL</b>			
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 <sup>-5</sup>
Ball pressure test 125 ±2°C	IEC 60695-10-2	-	Pass
<b>ELECTRICAL</b>			
Volume resistivity	IEC 60093	Ohm.cm	>10 <sup>15</sup>
Dielectric strength, in oil, 3.2 mm	IEC 60243-1	kV/mm	18
<b>OPTICAL</b>			
Light transmission 0.75 mm	ASTM D1003	%	92
Light transmission 1 mm	ASTM D1003	%	91
Light transmission 2 mm	ASTM D1003	%	91

## UV PROTECTION

LEXAN™ MARGARD™ CTGXT AF 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 AF sheet has high 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. A cleaning solution is offered.

## PRODUCT AVAILABILITY

GAUGE (MM)	WIDTH (MM)	LENGTH (MM)	COLOR
0.75	1220	2920	112
1.00	1220	2920	112
1.50	1220	2920	112
2.00	1220	2920	112
3.00	1220	2920	112

◆ 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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