

# LEXAN™ CTG SHEET

## PRODUCT DATASHEET

### DESCRIPTION

LEXAN™ CTG is a two sided hard coated 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 CTG sheet 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
<b>Physical</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.20
Water absorption, 24 hours	ISO 62	%	0.15
equilibrium		%	0.35
<b>Optical</b>			
Light transmission	ASTM D 1003	%	89,5
Taber abrasion (anti-scratch)			
CS 10F, 500g, 100 cycles	ASTM D1044	% haze	12
<b>Mechanical</b>			
Tensile stress, yield	ISO 527	MPa	60
Tensile modulus	ISO 527	MPa	2300
Elongation, yield	ISO 527	%	7
Elongation, break	ISO 527	%	110
Flexural strength, yield	ISO 178	MPa	100
Flexural modulus	ISO 178	MPa	2500
Izod notched impact, 20 °C	ISO 180-1A	KJ/m <sup>2</sup>	65
-30 °C		KJ/m <sup>2</sup>	10
Gardner Impact 20°C	SABIC Method	J	>37
-20 °C		J	>37
<b>Thermal</b>			
Vicat Softening Temp., Rate B / 120 (base sheet)	ISO 306	°C	150
Mold shrinkage	ISO527	%	0.5-0.7
Thermal expansion	ASTM D696	1/°C	7x10 <sup>-5</sup>
HDT, 0.45 MPa	ISO 75/Be	°C	138

◆ Typical values only. Variations within normal tolerances are possible for the various textures.  
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## CHEMICAL RESISTANCE

LEXAN CTG 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.

## PRODUCT AVAILABILITY

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

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