

LEXAN™ CTGAF1 SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ CTGAF1 sheet is one-side, coated polycarbonate sheet offering excellent dimensional stability, impact resistance, optical clarity and fog free time.

TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Density	ISO 1183	g/cm ³	1.20
Water Absorption, 24 hours	ISO 62	%	0.15
equilibrium		%	0.35
OPTICAL			
Light transmission	ASTM D 1003	%	90 - 91
Fog free time	E/ECE/324 no. 22 annex 16	s	>60
MECHANICAL			
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
Taber haze – 100 cycles, 500 gram, CS-10F	ASTM D1044	%	15 - 20
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

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

LEXAN™ CTGAF1 sheet can be cold and hot formed, drape formed to soft radii, and die-cut to shape. Drape forming temperatures are to a maximum of 155°C and hot forming temperatures to a maximum of 160°C

CHEMICAL RESISTANCE

LEXAN™ CTGAF1 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
2.50	1220	2920	112
3.00	1220	2920	112

ASSEMBLING

Parts made from LEXAN™ CTGAF1 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 Specialty Film & Sheet for advice on specific applications.

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