POLYVANTIS

PRODUCT DATASHEET

LEXAN™ MARGARD™ CTGAF SHEET

DESCRIPTION

LEXAN™ MARGARD™ CTGAF1 sheet is a one-side and CTGAF2 sheet is a two-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/cm³	1.20
Water absorption, 50% RH, 23 °C	ISO 62	%	0.15
Water absorption, saturation, 23°C	ISO 62	%	0.35
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, 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
OPTICAL			
Light transmission	ASTM D 1003	%	90-91
Fog free time	E/ECE/324 no. 22 annex 16	s	>60

*These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local POLYVANTIS representative or the POLYVANTIS Quality Services Department.

PROCESSING

LEXAN™ MARGARD™ CTGAF 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.

ASSEMBLING

Parts made from LEXAN MARGARD CTGAF 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 POLYVANTIS for advice on specific applications.

CHEMICAL RESISTANCE

LEXAN MARGARD CTGAF 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.

SAFETY

The processing guidance given in this documentation is given in good faith and the trust that in all cases you wear the correct Personal Protective Equipment (PPE), e.g. helmet, proper gloves, safety goggles etc. to safely fabricate, e.g. (but not limited to) sawing, cutting, forming our sheets and films. In all cases you should follow local and national regulations around the wear of PPE's prescribed or mandatory to perform these tasks in a safely manor.

PRODUCT AVAILABILITY

Product code:	**LEXAN™ MARGARD™ CTGAF1 & CTGAF2**
Gauges:	0.75-3mm
Standard size:	1220 x 2920mm
Color:	Clear 112

POLYVANTIS

Polycarbonate products are sold globally under the trademark LEXAN™ Film & Sheet, owned by SABIC or its subsidiaries or affiliates.

www.polyvantis.com

LEXAN™ POLYCARBONATE FILM & SHEET Tough, Virtually Unbreakable

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