POLYVANTIS

PRODUCT DATASHEET

LEXAN™ CTG ANTI-FOG SHEET

DESCRIPTION

LEXAN™ CTG Anti-Fog is a two sided, coated polycarbonate sheet offering excellent dimensional stability and impact resistance optical clarity, UV protection, abrasion resistance and fog free time. It has been specifically developed 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, sunglasses.

TYPICAL PROPERTY VALUES*

PROPERTY	TEST METHOD	UNITS	VALUE
Physical			
Density	ISO 1183	g/cm³	1.20
Water absorption, 24 hours	ISO 62	%	0.15
equilibrium		%	0.35
Optical			
Light transmission	ASTM D1003	%	89.5
Taber abrasion (anti-scratch)			
CS 10F, 500g, 100 cycles	ASTM D1044	% haze	12
Fog Free time	POLYVANTIS Method	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
Izod notched impact, 20 °C	ISO 180-1A	KJ/m²	65
-30 °C		KJ/m²	10
Gardner impact 20 °C	POLYVANTIS Method	J	>37
-20 °C		J	>37
Thermal			
Vicat Softening Temp., Rate B / 120 ((base	ISO 306	°C	150
Mold shrinkage	ISO 527	%	0.5-0.7
Thermal expansion	ASTM D696	1/ °C	$7x10^{-5}$
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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LEXAN™ POLYCARBONATE FILM & SHEET Tough, Virtually Unbreakable

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