POLYVANTIS

PRODUCT DATASHEET

LEXAN™ EXELLDP SCIR SHEET

DESCRIPTION

LEXAN™ EXELLDPSCIR solid sheet is a transparent polycarbonate sheet with proprietary UV protection on both sides offering excellent weathering properties and IR absorption, with outstanding heat management properties. With its excellent impact, resistance it is ideally suited to a wide variety of building and construction applications.

TYPICAL PROPERTY VALUES*

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Density	ISO 1183	g/cm³	1.2
Water Absorption, (23°C/sat)	ISO 62	%	0.35
Moisture Absorption (23°C / 50% RH)	ISO 62	%	0.15
MECHANICAL			
Tensile Stress, yield, 50 mm/min	ISO 527	MPa	63
Tensile Strain, yield, 50 mm/min	ISO 527	%	6
Tensile Strain, break, 50 mm/min	ISO 527	%	120
Tensile Modulus, 1 mm/min	ISO 527	MPa	2350
Flexural Stress, yield, 2 mm/min	ISO 178	MPa	90
Flexural Modulus, 2 mm/min	ISO 178	MPa	2300
IMPACT			
Izod Impact, unnotched 80*10*3 +23°C	ISO 180/1U	kJ/m²	NB
Izod Impact, notched 80*10*3 +23°C	ISO 180/1A	kJ/m²	70
Charpy Impact, notched, 23°C	ISO 179/2C	kJ/m²	35
THERMAL			
Thermal Conductivity	ISO 8302	W/m-°C	0.2
CTE, 23°C to 80°C, flow	ISO 11359-2	1/°C	7.E-05
Ball Pressure Test, 125°C +/- 2°C	IEC 60695-10-2	-	PASSES
Vicat Softening Temp, Rate B/120	ISO 306	°C	145
Relative Temp Index, Elec	UL 746B	°C	130
Relative Temp Index, Mech w/impact	UL 746B	°C	130
Relative Temp Index, Mech w/o impact	UL 746B	°C	130
Electrical			
Volume Resistivity	IEC 60093	Ohm-cm	>1.E+15
Dielectric Strength, in oil, 3.2 mm	IEC 60243-1	kV/mm	17

◆ These property values have been derived from resin data for the material used to produce this sheet product. Variation within normal tolerances is possible for various colors. These typical values are not intended for specification purposes. If minimum certifiable properties are required, please contact your local sales representative. All values are measured at least after 48 hours storage at 23°C/50% relative humidity. All properties are measured on injection-molded samples. All samples are prepared according to ISO 294.

UV Protection

LEXAN™ EXELLDPSCIR sheet has proprietary UV protected surfaces, giving excellent durability to outdoor weathering. LEXAN™ EXELLDPSCIR sheet is essential opaque to all wavelengths below 385 nanometers. This useful shielding property can prevent discoloration of sensitive materials placed under or behind LEXAN™ EXELLDPSCIR sheet.

Light Transmission

Transparent LEXAN EXELLDPSCIR sheets have excellent light transmission.

Color	Gauge	Light Transmission
Green GN8A081T	6mm	72.5 - 74.5 (+/- 4%)

Product Availability

LEXAN™ EXELLDPSCIR sheet is normally manufactured in the standard sizes listed below.

Standard Gauge	:	2-3-4-5-6 mm
Standard Sizes	:	1220mm x 2440mm and 2050mm x 3050mm
Masking	:	Lexan printed masking on top & Clear masking bottom

For EXELLDP SCIR sheet, different colors and dimensions can be made available by prior arrangement. Such arrangements may affect prices, warranty terms and/or conditions of the sale. Please contact India sales office commercial team member.

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LEXAN™ POLYCARBONATE FILM & SHEET | Tough, Virtually Unbreakable

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