

LEXAN™ EXELLDSTP SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ EXELLDSTP sheet is a textured polycarbonate sheet with UV protection on both sides, offering excellent light diffusion without transparency. It has an excellent impact resistance, an excellent fire performance, ease of handling and installation and is an excellent candidate for wide variety of exterior and interior applications such as balcony and staircase glazing.

TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Density	ISO 1183	g/cm ³	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/m ²	NB
Izod Impact, notched 80*10*3 +23°C	ISO 180/1A	kJ/m ²	70
Charpy Impact, notched, 23°C	ISO 179/2C	kJ/m ²	35
THERMAL			
Thermal Conductivity	ISO 8302	W/m·°C	0.2
CTE, 23°C to 80°C, flow	ISO 11359-2	1/°C	7x10 ⁻⁵
Ball Pressure Test, 125°C +/- 2°C	IEC 60695-10-2	-	PASS
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/oimpact	UL 746B	°C	130
Electrical			
Volume Resistivity	IEC 60093	Ohm-cm	>10 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 are possible for various colors. These typical values are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC, Functional Forms 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 ISO 294.

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Chemical Resistance

LEXAN EXELLDSTP sheet has sufficient resistance to most chemical substances encountered in normal exterior use. In applications where the product will come into contact with aggressive chemicals, specific (application related) testing of the material is always advised. It is essential to check the compatibility before use.

Light Transmission

Transparent LEXAN™ EXELLDSTP sheet have light transmission of Min.72% depending on thickness. However, for buildings in hot climates or with south facing aspects, LEXAN EXELLDSTP sheet is available in bronze have light transmission for all thickness with Min.47% to Max.53%. LEXAN EXELLDSTP is essential opaque to all wavelengths below 385 nanometers. This useful shielding property can help prevent discoloration of sensitive materials placed under or behind LEXAN EXELLDSTP sheet.

UV Protection

LEXAN EXELLDSTP sheet has proprietary UV protected surfaces, giving excellent durability to outdoor weathering. This superior UV resistance and toughness of LEXAN EXELLDSTP sheet is backed by a 10 years limited written warranty against yellowing, loss of light transmission and breakage. See Warranty for exact details.

Fire Performance

LEXAN EXELLDSTP sheet has good fire behaviour characteristics. LEXAN sheet does not contribute significantly to the spread of fire or to the generation of toxic gases. For details, please contact your local sales office

Product Availability •)

Product code	LEXAN™ EXELLDSTP Sheet
Gauge	2, 3, 4 mm
Standard width	1220 and 2050 mm
Standard length	30500mm for 2 & 3 mm and 12200mm for 4mm only. Both available in Roll form only
Textures	Polished one side, pebble texture on reverse
Masking	LEXAN printed masking on one side (Polished)
Colors	Clear code 112, bronze code 515081

•) LEXAN EXELLDSTP sheet can be supplied by prior arrangements in non - standard widths, lengths and color. Such arrangements may affect prices, terms and/or other conditions of sales and are subject to minimum order quantities.

*For more specific details, please refer India Product Guide.

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