

LEXAN™ 80650 FILM

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ 80650 is a transparent polycarbonate film, specially developed for UV cured screen printing technique. Allowing optimal cure of the ink and keeping integrity of the base color of the Lexan™ film.

TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Density	ISO 1183	g/cm ³	1.20
Water absorption, saturation, 23°C	ISO 62	%	0.35
Pencil hardness	ASTM D3363	--	B
MECHANICAL			
Tensile stress at yield	ISO 527	MPa	63
Tensile stress at break	ISO 527	MPa	70
Elasticity modulus	ISO 527	MPa	2350
Tensile elongation at break	ISO 6603-1	%	120
Gardner-impact, 0,75 mm	ASTM D3029	J	31
Tear initiation	ASTM D1004	kN/m	245-315
Tear propagation	ASTM D1922	kN/m	10-20
THERMAL			
Coefficient of thermal expansion	DIN 53752	1/°C	6.8 x 10 ⁻⁵
HDT /Ae 1,82 N/mm ²	ISO 75	°C	135
Thermal conductivity	DIN 52612	W/m°C	0.20
Specific heat@40oF	ASTM C351	kJ/kg°C	7
Optical			
Light transmission	ASTM D1003	%	90
Yellowness Index	ASTM D1925	---	<1.0
Refractive index, 25°C	DIN 53491	--	1.586
FIRE RATINGS			
Electrical			
UL Listing - E45329			

◆ These property values have been derived from LEXAN™ 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, Specialty Film & Sheet 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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PRODUCT AVAILABILITY

Surface appearance	Gauge (mm)	Color
Polished/polished	0.75 1.00	11295 (transparent)

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