

LEXAN™ H6200 SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ H6200 sheet is a non-Chlorinated and non-Brominated compliant flame retardant opaque pc/ABS based sheet available in standard and custom colors. In addition to good flammability performance, it offers excellent mechanical properties combining low temperature impact with strength and ease of processing, making it an excellent candidate for a wide range of applications in industries such as mass transportation.

TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Density	ISO 1183	g/cm ³	1.19
MECHANICAL			
Yield stress 50 mm/min	ISO 527	MPa	>60
Yield strain 50 mm/min	ISO 527	%	5
Nominal strain at break 50 mm/min	ISO 527	%	8
Tensile modulus 1 mm/min	ISO 527	MPa	2500
IMPACT			
Izod impact, unnotched 23°C, 3.0 mm	ISO 180/1U	kJ/m ²	NB
Izod impact, notched 23°C, 3.0 mm	ISO 180/1A	kJ/m ²	45
THERMAL			
Vicat softening temperature, B/120	ISO 306	°C	118
OPTICAL			
Light transmission 3 mm	ASTM-D1003	%	n/a
FIRE RATINGS			
Building & Construction			
Europe	EN13501-1	-	b,s1,d0 (1.7mm)
Rail			
Germany	DIN 5510-2	-	S4/SR2/ST2(4mm) S3/SR2/ST2 (3mm)
Electrical			
UL Listing - E45329			

◆ These property values have been derived from LEXAN™ resin data for the material used to produce this sheet product. Variations 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 samples are prepared according ISO 294.

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PROCESSING

LEXAN™ H6200 is suitable for thermoforming. To reach optimal results the materials needs to be heated with sandwich type heating systems to reach uniform heat uptake. Pre-drying of this material is necessary. Pre drying at 100 °C for 2 hours /mm thickness.

LEXAN H6200 has a processing window between 160 and 200°C. When forming, a draft angle of 3 degrees should be allowed. Post mold shrinkage is dependent on tool temperature and environmental circumstances, but will typically be in the range of 0.5-0.9%.

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