

Description

Lexan LT300 sheet is an industrial grade sheet material extruded from SABIC Innovative Plastics internally recycled polycarbonate resins. Lexan LT300 sheet material is an excellent candidate for a wide range of flat or vacuum formed applications. Lexan LT300 sheet is an excellent candidate for non-aesthetic applications requiring impact resistance, good heat resistance, and formability.

Typical Property Values ♦

Property	Test Method	Unit	Value
Physical			
Specific Gravity, color dependent	ASTM D792	-	1.20
Mechanical			
Tensile Strength, Yield	ASTM D638	psi	8,000
Tensile Modulus	ASTM D638	psi	310,000
Flexural Strength, Yield	ASTM D790	psi	12,500
Flexural Modulus	ASTM D790	psi	310,000
Elongation , Break	ASTM D638	%	70
Impact Strength	Dynatup	ft-lbs	
75°F	(1/2" diameter dart)		75
-20°F			50
Izod Impact Strength	ASTM D256A	ft-lbs/in	
Unnotched @ 75°F			No break
Unnotched @ -20°F			No break
Water Absorption @ 24 hr immersion equilibrium	ASTM D570	%	.35
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 ⁻⁵
Heat Deflection Temperature	ASTM D648	°F	
@ 264 psi			270
@ 66 psi			280
Mold Shrinkage		in/in	.007-.009

♦ These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC Innovative Plastics, Specialty Film & Sheet representative

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Processing

Lexan LT300 sheet can be used for thermoforming. It offers high, deep draw ratios, equal wall thickness distribution, and it can be formed into complex shapes using standard thermoforming equipment. Sandwich type heating systems give the best results. Lexan LT300 sheet has a forming temperature range of 350-400°F. When forming, a draft angle of at least 3° should be allowed, and post mold shrinkage of .007-.009 in/in taken into account.

Pre-drying

It is important to ensure that Lexan LT300 sheet is free of moisture prior to thermoforming. A hot air circulating oven set at 250°F is recommended. Pre-drying times vary from 3-24 hours, depending on sheet thickness.

Assembling

Parts made from Lexan LT300 sheet can be assembled with plastics, metals, rubber and other materials using many types of adhesive bonding, welding and mechanical fastening techniques. Since some of these materials can cause environmental stress cracking, please consult SABIC Innovative Plastics, for advice on specific applications

Painting

Lexan LT300 sheet is well-suited for use with a wide variety of modern decoration techniques. A list of approved paint systems and suppliers is available upon request.

Chemical Resistance

Lexan LT300 sheet has sufficient resistance to most mineral oils, greases, aliphatic hydrocarbons and acids under low or moderate stress levels. Specific (application related) testing is always advised, especially in applications where the Lexan LT300 sheet will come into contact with aggressive chemicals.

Product Availability

Product code: Lexan LT300 sheet
Textures/Masking: LT300 - Polished/Polished, poly cling masking
 LT304 - Polished/Polished, cling stick masking
 LT3011 - Haircell/Polished, no masking
Colors Standard: Clear 112, Range Black 701, Range Gray 7030, and white

For industrial, non-aesthetic applications. There are no quality specifications associated with this product.



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