

Polycarbonate ClearBoarding Pricing

	General Purpose	Branded
4x8	\$100	\$120
5x8*	\$125	\$155
6x8*	\$150	\$175
HDPE bars	\$11	\$11

Sheet thickness no less than 0.177 inch (3/16th inch)

*5x8 and *6x8 sheets are subject to availability

Recommend using a high tooth count carbide tip blade with any table or circular saw.

Freight \$100 +/-

Pick up is FREE at Distribution Centers

Payment: Pre-Paid (Credit card or check)

Custom Cut and/or odd sizes available periodically

Call Heather with any questions:

Heather Best

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Your ClearBoarding Expert

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CBE

Polycarbonate ClearBoarding Product Data Sheet

Description ClearBoarding Sheets are an industrial grade sheet material extruded from SABIC Innovative Plastics internally recycled polycarbonate resins. The material is an excellent candidate for a wide range of flat or vacuum formed applications. It can also be used 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	
	(1/2" diameter dart)		75
	75°F		50
	-20°F		
Izod Impact Strength	ASTM D256A	Ft-lbs	
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 contact CBE.

Processing Sheets 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. Sheets have 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 sheets are 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 sheets 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 CBE, for advice on specific applications

Painting Sheets are 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 Sheets have 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 sheets 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