

POLYCAST[®] CLOSE TOLERANCE CELL CAST ACRYLIC SHEET

Polycast[®] CT maintains closer thickness tolerances than standard ASTM 4802 commercial grade sheet (based on standard size sheets of 24" x 36"). Polycast[®] CT can also be manufactured in clear and colors, Infrared transmitting, UV filtering or transmitting, cross-linked or pre-shrunk and is suitable for FDA applications.

Thickness	Tolerance
.020"	±.007"
.030"	±.007"
.040"	±.007"
.050"	±.007"
.060"	±.008"
.070"	±.008"
.080"	±.008"
.090"	±.008"
.100"	±.009"
.125"	±.010"
.187"	±.012"
.250"	±.015"

*FDA: Food and Drug Administration's regulations concerning food contact applications as described in 21 CFR 177.1010 for all food types, including alcoholic beverages in room temperature or refrigerated applications.

**Polycast[®] FDA Grade products are Certified NSF Standard 51.

*** Polycast FDA NSF certified colors include; Clear, White, Green, Red and Blue.

Mechanical Properties	Test Method	Unit	Polycast Close Tolerance
Specific Gravity	ASTM D792		1.19
Tensile Strength	ASTM D638	psi	11,250
Yield		%	6.4
Elongation, Rupture		psi	450,000
Modulus of Elasticity			
Compressive Deformation (Under Load)	ASTM D621		
4000 PSI 122F, 24hr		%	0.75
Sheer Strength	ASTM D732	psi	9,000
Rockwell Hardness	ASTM D785		M98*
Optical Properties			
Refractive Index	ASTM D542		1.49
Luminous Transmittance (As Cast)	ASTM D1003		
Total		%	92
Haze			<0.5
Yellowness Index	ASTM D1925		0.5
After 1000 hrs. Accelerated Weathering			
Total		%	92
Haze			<0.5
Thermal Properties			
(Heat Distortion Temp.)			
66 psi		deg. F.	230*
264 psi		deg. F.	203*
Maximum Recommended Continuous Service Temp.		deg. F.	180
Flammability (Burning Rate) UL94HB	ASTM D635	in./min.	1.2*
Self-ignition Temperature	ASTM D1929	deg. F.	830*



REV 3/1/2021



69 Southfield Ave.
Stamford, CT 06902
1-800-243-9002
FAX: 800-955-0053 or 573-335-5661
www.spartech.com

Copyright ©2021, Spartech, LLC. Spartech makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Spartech makes no warranties or guarantees respecting suitability of either Spartech's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. SPARTECH MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or product reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.