



**POLYCAST<sup>®</sup>**

Cast Acrylic  
Rods & Tubes



# RODS & TUBES

Polycast® cast acrylic rods and tubes provide outstanding optical clarity, high impact resistance, superb weathering ability and excellent UV properties. A variety of sizes, thicknesses and colors are available for a wide range of applications and industrial uses.

## INVENTORY AND MANUFACTURING

Featuring exceptional and consistent quality, Polycast rods and tubes are delivered with the dependability and service you expect from Polycast. We maintain a large tubing and rod inventory for quick and timely order processing. Each rod and tube is inspected, then carefully packaged and labeled with all specifications.

Our inventory tracking system ensures that we have real time information and can fill your order quickly and accurately.

## MACHINING & FABRICATION

We have a fabrication and machining facility staffed by experts who are able to handle your exact needs. Available operations include flame polishing, angle cuts, drilling, chamfering and specialty machining. Any rod or tube can be cut to meet your specifications.

## APPLICATIONS

Polycast Rods and Tubes are ideal for many applications, including:

- Displays
  - Signage
  - Medical devices
  - Arts & crafts
  - Aquariums
  - Game calls
  - Reservoirs
  - Sight glasses
  - Lighting displays
  - Product displays
- And much more

## CAST ACRYLIC TUBING

Clear cast acrylic tubing is manufactured in standard 6' lengths (random 71" to 73") and in diameters ranging from 1.5" O.D. to 27.65" O.D. Wall thicknesses of .187", .250", .375" and .500" are available in most diameter tubes.

Special wall thicknesses are available on request.

## CAST ACRYLIC ROD

Clear cast acrylic rods are manufactured in diameters ranging from .625" to 9.00". Tight tolerances throughout the manufacturing process ensure you receive the highest quality rods available. Standard lengths for clear rods are:

- 8' for rods .250" to 2.00" in diameter
- 6' for rods 2.125" to 3.00" in diameter
- 4' for rods 3.25" to 6.00" in diameter
- 3' for rods 6.50" to 8.00" in diameter
- 2' for rods 9.00" in diameter

Colored rods are manufactured in 46"–49.5" lengths.

## CERTIFICATIONS

**ASTM D5436:** Polycast acrylic rods and tubes are manufactured in alignment with ASTM D5436.

*Tight tolerances throughout the manufacturing process ensure you receive the highest quality rods available.*



## DATA CHART

PROPERTIES	UNITS	DATA
Refractive Index	—	1.49
Specific Gravity	—	1.19
<b>UV Transmission</b>		
270nm	%	<5
280nm	%	<5
290nm	%	<5
310nm	%	<5
340nm	%	<5
<b>Luminous Transmittance</b>		
< 4.7 mm (0.187 in.) thickness	%	92
25.4 mm (1.00 in.) thickness	%	89
> 25.4 mm (1.00 in.) thickness	%	87
Haze	%	1.0
Deflection Temperature	°F (°C)	401 (205)
Water Absorption	%	0.8
Tensile Strength	psi	11,000
Elongation at Break	%	3



# RODS

## COLORS

### STANDARD

<b>2025</b>	Black	<b>2130</b>	Pink	<b>2473</b>	Copper
<b>2026</b>	Extra Black	<b>2146</b>	Ivory	<b>2630</b>	Brown
<b>2044</b>	Lt Navy Gray	<b>2208</b>	Yellow	<b>3030</b>	Green
<b>2050</b>	Blue	<b>2283</b>	Red	<b>4000</b>	Ultra-Brite
<b>2054</b>	Dk Navy Gray	<b>2328</b>	Dk Tan	<b>6512</b>	Green
<b>2064</b>	Gray	<b>2370</b>	Bronze	<b>6738</b>	Violet
<b>2069</b>	Blue	<b>2404</b>	Bronze	<b>7328</b>	White
<b>2074</b>	Gray	<b>2414</b>	Green	<b>9702</b>	Violet
<b>2092</b>	Green	<b>2422</b>	Amber	<b>9712</b>	Purple
<b>2111</b>	Green	<b>2423</b>	Red		
<b>2112</b>	Dk Green	<b>2424</b>	Blue		
<b>2114</b>	Blue	<b>2447</b>	White		

### FLUORESCENT

<b>6213</b>	Red
<b>6481</b>	Green
<b>6533</b>	Neon Green
<b>6677</b>	Blue
<b>6954</b>	Amber

### PEARL

<b>1601</b>	White
<b>1603</b>	Fluorescent Green
<b>1725</b>	Golden Oak
<b>1730</b>	Black
<b>1735</b>	Black 'n' Gold
<b>1740</b>	Red
<b>1745</b>	Orange
<b>1750</b>	Blue
<b>1755</b>	Hot Pink
<b>1765</b>	Green
<b>1770</b>	Black Cherry
<b>1775</b>	Teal

*Diameters for colored rods range from .500" to 3.00" in standard 4' lengths*



# CLEAR, POLISHED

(Machine grade rod is available upon request.)

DIAMETER	LENGTH (FT)	WEIGHT (LBS/FT)	TOLERANCE
.250*	8	.026	±.005
.312*	8	.039	±.005
.375*	8	.056	±.005
.500*	8	.100	±.010
.625	8	.158	±.010
.750	8	.227	±.010
.875	8	.309	±.010
1.000	8	.403	±.010
1.125	8	.511	±.015
1.250	8	.630	±.015
1.375	8	.762	±.015
1.500	8	.907	±.015
1.625	8	1.070	±.015
1.750	8	1.240	±.015
1.875	8	1.420	±.015
2.000	8	1.610	±.015
2.125	6	1.820	±.030
2.250	6	2.040	±.030
2.500	6	2.520	±.030
2.750	6	3.050	±.030
3.000	6	3.630	±.030
3.250	4	4.260	±.045
3.500	4	4.940	±.045
3.750	4	5.670	±.045
4.000	4	6.450	±.045
4.250	4	7.280	±.045

DIAMETER	LENGTH (FT)	WEIGHT (LBS/FT)	TOLERANCE
4.500	4	8.200	±.045
4.750	4	9.100	±.045
5.000	4	10.100	±.045
5.250	4	11.100	±.045
5.500	4	12.200	±.045
5.750	4	13.300	±.045
6.000	4	14.600	±.045
6.500	3	17.200	±.060
7.000	3	20.000	±.060
7.500	3	22.800	±.060
8.000	3	26.000	±.060
9.000	2	29.259	±.060

\*Available in machine grade only.



# TUBES

## COLORS

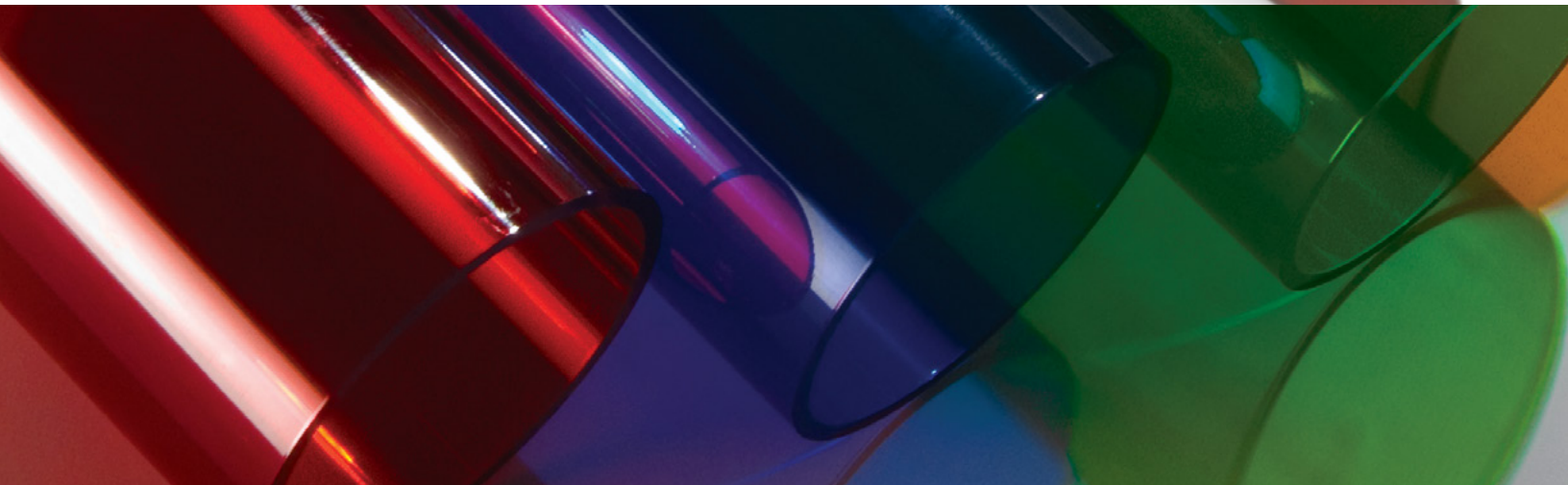
6000	White (Translucent)
6100	Black
6300	Opaque White
6400	Red
6500	Green
6600	Blue
6681	Gas Pump Blue
6700	Amber

## TOLERANCES

NORMAL O.D.	PLUS/MINUS
1.250" – 3.000"	.020
3.125" – 3.875"	.030
4.000" – 6.000"	.045
6.250" – 12.000"	.065
12.250" – 27.625"	.125



*Spartech™ acrylic tubes provide outstanding optical clarity and high impact resistance*



# CLEAR, POLISHED 71"–73" LENGTHS

(Custom lengths can be cut for a charge.)

O.D.	WEIGHT (LBS/FT)				
	.125"	.187"	.250"	.375"	.500"
1.500	.277	.397	.504		
1.625	.303	.435	.555		
1.750	.328	.473	.605		
1.875	.355	.489	.630		
2.000	.370	.548	.706	.889	1.075
2.250	.429	.624	.807	1.060	1.353
2.375	.453	.662	.857	1.145	1.431
2.500	.479	.699	.908	1.233	1.499
2.625	.483	.703	.950	1.297	1.635
2.750	.529	.775	1.008	1.437	1.703
2.875	.545	.813	1.059	1.513	1.806
3.000	.580	.851	1.109	1.588	1.932
3.125	.605	.889	1.168	1.664	2.030
3.250	.630	.926	1.210	1.740	2.126
3.375	.655	.964	1.260	1.815	2.223
3.500	.681	1.002	1.311	1.891	2.420
3.625	.705	1.039	1.362	1.967	2.520
3.750	.731	1.078	1.412	2.043	2.622
3.875	.757	1.115	1.462	2.119	2.724
4.000	.781	1.154	1.512	2.193	2.824
4.124	.807	1.191	1.564	2.269	2.925
4.250	.833	1.230	1.614	2.344	3.025
4.375	.860	1.275	1.664	2.420	3.125
4.500	.883	1.305	1.715	2.496	3.227
4.625	.908	1.342	1.765	2.572	3.329
4.750	.933	1.381	1.815	2.648	3.429
4.875	.957	1.417	1.865	2.722	3.529
5.000	.983	1.455	1.915	2.798	3.630
5.250	1.034	1.533	2.170	2.950	3.832
5.500	1.084	1.609	2.092	3.101	4.033
5.625	1.108	1.644	2.168	3.177	4.134
5.750	1.134	1.683	2.219	3.253	4.235
6.000	1.184	1.759	2.319	3.403	4.437
6.093	1.204	1.786	2.357	3.459	4.513

O.D.	WEIGHT (LBS/FT)				
	.125"	.187"	.250"	.375"	.500"
6.250	1.255	1.831	2.388	3.583	4.677
6.500	1.280	1.910	2.522	3.706	4.841
6.750	1.340	1.963	2.575	3.864	5.077
7.000	1.389	2.060	2.722	4.008	5.244
7.250	1.450	2.115	2.800	4.047	5.395
7.500	1.488	2.214	2.925	4.311	5.647
7.626	1.502	2.234	2.950	4.359	5.730
8.000	1.588	2.634	3.125	4.613	6.051
8.250	1.639	2.440	3.227	4.765	6.252
8.500	1.689	2.515	3.329	4.916	6.454
8.750	1.739	2.591	3.445	5.068	6.656
9.000	1.789	2.659	3.529	5.218	6.857
9.125	1.800	2.705	3.560	5.280	6.902
9.250	1.841	2.743	3.360	5.370	7.059
9.500	1.891	2.819	3.732	5.505	7.261
10.000	1.989	2.969	3.932	5.832	7.661
10.500	2.090	3.120	4.134	6.125	8.201
10.625	2.140	3.186	4.152	6.155	8.402
11.000	2.193	3.271	4.336	6.428	8.741
11.500	2.294	3.424	4.539	6.7352	8.874
11.750	2.398	3.499	4.641	6.882	9.074
12.000	2.421	3.574	4.739	7.033	9.278
12.500	2.540	3.720	4.930	7.310	9.650
13.625	2.620	3.924	5.207	7.718	10.149
14.000	2.800	4.235	5.550	8.245	10.891
15.000	3.001	4.485	5.953	8.858	11.698
16.000	3.187	4.600	6.221	9.077	12.023
18.000	3.610	5.201	7.026	10.209	13.886
20.000	4.167	6.441	8.229	12.135	15.180
24.000	4.650	7.126	9.395	13.701	18.463
27.625	–	7.836	10.585	16.007	22.601

We are a leading plastics manufacturer that leverages our knowledge of materials, processing, and application development to deliver the highest level of value to our customers.



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**POLYCAST**

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Rev. 3/2026