

Cast Acrylic Sheet Product Information

Benefits

Light transmittance of 93%
 Excellent resistance to weather, U.V., and temperature conditions
 Surface hardness equivalent to aluminum
 Easily thermoformed with limited reversion
 Wide range of stock colours

Colours

Clear, Opal, Blue, Black, Orange, Red, Grey, White, Yellow, Fluro Orange, Fluro Green, Fluro Pink.

Dimensions

Clear and Opal available in 2540 x 1280, 2490 x 1880, 3050 x 2030
 Black and White available in 2480 x 1280
 All other colours available in 2440 x 1220
 Thicknesses range from 1 .5mm through to 25mm

Applications

Product displays
 Aquariums
 Skylights
 Furniture
 Partitions

Physical Properties	3mm Thickness	
	Value	Units
Specific Gravity	1.19	
Hardness (Brinell)	20 - 24	
Water Absorption (24 hour)	0.3	%
Compression Strength: Yield	1260	kg/cm ²
Modulus of Elasticity	25000	kg/cm ²
Tensile Strength: Rupture	560	kg/cm ²
Modulus of Elasticity	25000	kg/cm ²
Elongation	3 - 7	%
Flexural Strength: Rupture	1003	kg/cm ²
Modulus of Elasticity	24700	kg/cm ²
Shear Strength	443	kg/cm ²
Impact Strength (200 gr. Steel ball)	0.4	m
Refractive Index	1.49	
Light Transmittance	93	%
Heat Distortion Temp.	85	°C
Coefficient of Thermal Conductivity	4 - 6 x 10 ⁻⁴	cal/sec/cm ² /°C/cm
Coefficient of Thermal linear Expansion	7 x 10 ⁻⁵	°C
Max Recommended Continuous Service Temp.	80	°C
Hot Forming Temperature	140 - 160	°C
Specific Heat	0.35	cal/gr. °C
Dielectric Strength	20f	kv/mm
Volume Resistivity	10 ¹⁵ x 10 ¹⁵	ohm - cm

Thickness	Tolerance	Thickness	Tolerance
1.0	.08 - 1.20	6	5.4 - 6.6
1.5	1.3 - 1.7	8	7.2 - 8.8
1.8	1.5 - 2.1	10	9 - 11
2.0	1.7 - 2.3	13	12 - 14
2.3	2.2 - 2.8	15	13 - 17
2.8	2.5 - 3.4	18	16.7 - 10.3
3.0	2.6 - 3.4	20	18.5 - 21.5
4.0	3.6 - 4.4	25	23.3 - 26.7
4.5	4.0 - 5.0	30	28.2 - 31.8
4.76	4.3 - 5.2	40	38.2 - 41.8
5	4.5 - 5.5	50	48 - 52

These figures report reliable and accurate information to the best of our knowledge, however, guarantees cannot be given due to the conditions of use being beyond our control. Sheeting applications should be considered on their merits.

The values above are average values and will be changed in accordance with thickness and colour

- CNC
- Designing
- 3D Printing
- Consulting
- Engineering
- 3D Scanning

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