

PLEXIGLAS® FROSTED 3165 BLACK ACRYLIC SHEET

Produced from Recycled Content with Endless Possibilities

In a time when “going green” is at the forefront of society, PLEXIGLAS® Acrylic Sheet is proud to promote our PLEXIGLAS® Frosted 3165 Black: an acrylic sheet made with more than 70% recycled content.

Trinseo, a designer of materials and innovative solutions, strives to have PLEXIGLAS® acrylic as a benchmark for the industries of tomorrow throughout the Americas. With this in mind, the PLEXIGLAS® acrylic sheet group understands the market focus on sustainability and aligns with these ideals by utilizing recycled content to increase performance and minimize waste, without sacrificing product quality.

Due to its durability, light weight, and textured finish, the PLEXIGLAS® Frosted line of acrylic sheet is an excellent material with a modern aesthetic for backdrops, columns, signage, shelving, tabletops and visual displays. The opacity of this material also meets specialty market needs where light restriction is required. PLEXIGLAS® Frosted 3165 Black acrylic sheet is a key product in arcade and video game construction to block external lighting, ensuring proper screen visibility.

Furthermore, the frosted texture of this acrylic sheet isn't just on the surface - the internal bead technology used when extruding these sheets means that the frosted look is engineered throughout the entire acrylic structure. This offers the extra benefit of the PLEXIGLAS® Frosted line of acrylic sheet retaining its frosted finish even after thermoforming, unlike comparable products with surface embossed textures.

Eco-friendly recycled sourced, PLEXIGLAS® Frosted 3165 Black acrylic sheet offers all the features of the PLEXIGLAS® Frosted line of acrylic sheet:

- Resists fingerprints, scratches, and smudges
- Easy to clean and low maintenance
- Modern, rich effects
- Easy to cut, drill, rout, finish, and cement
- Patented technology



PRODUCT OFFERINGS*

PLEXIGLAS® Frosted 3165 Black acrylic sheet is available in a variety of sheet sizes and thicknesses, with custom offerings available upon request.

Thickness	Sheet Size
0.118"	48" x 96"
0.177"	60" x 96"
0.236"	
0.354"	

* Not all thickness/sheet size/color combinations may be in stock. Minimum order quantity and lead times may vary. Please contact our customer service team for more information.

TYPICAL VALUES

	Test Method	Unit	Value
Physical properties			
Nominal thickness for data unless otherwise noted	N/A	in	0.236"
Specific gravity	ASTM D-792	-	1.18
Rockwell hardness	ASTM D-785	M scale	95
Optical properties			
Luminous transmittance	ASTM D-1003	%	< 1
Mechanical properties			
Tensile strength, maximum	ASTM D-638	psi	10,200
Tensile elongation	ASTM D-638	%	4.5
Tensile modulus of elasticity	ASTM D-638	psi	450,000
Flexural strength, maximum	ASTM D-790	psi	15,000
Flexural modulus of elasticity	ASTM D-790	psi	450,000
Notched izod impact @ 73°F (23°C)	ASTM D-256	ft-lb/in	0.3
Thermal properties			
Deflection temperature under Flexural Load @ 264psi – unannealed ¹	ASTM D-648	°F	185
Maximum recommended continuous service temperature	N/A	°F	170 - 190
Recommended thermoforming temperature	N/A	°F	275 - 350
Flammability ³ & specification compliance properties			
Horizontal burn rate ^{1,2}	ASTM D-635	in/min	1.0
Smoke density ^{1,2}	ASTM D-2843	%	2.0
Self ignition temperature ^{1,2}	ASTM D-1929	°F	850
Plastics component QMFZ2.E39437 - Flammability Classification	UL 94	-	HB (≥ 0.080" All)
Plastics component QMFZ2.E39437 - Outdoor Sustainability	UL 746C	-	f2 (≥ 0.080" All)
International building code	IBC 2606.4	-	CC2 (0.080" - 0.472")
Miami-dade county product control division	NOA # 21-0825.02	-	PASS (0.080" - 0.472")
Florida building code	15786-R2	-	PASS (0.080" - 0.472")
Standard specification for PMMA acrylic plastic sheet	ASTM D-4802	-	Category B-1, Finish 2