

Frosted with impact resistance

Plexiglas® DR Frosted acrylic sheet is one of the newest product offerings in the Plexiglas® sheet family, creating a frosted look with added stability of an impact modified benefit in the sheet. Plexiglas® DR Frosted utilizes the best of our Plexiglas® Frosted and Plexiglas® DR technologies.

Plexiglas® DR Frosted acrylic sheet provides high light transmission with diffusion properties. This makes the sheet excellent for light covers, refractors and lens applications where diffusion is required while hiding the light source.

The material is easy to design with and has all the fabrication attributes you have come to expect of standard Plexiglas® acrylic sheet.

This versatile material can be used in lighting applications for commercial, industrial, residential and professional uses. Besides the typical lighting applications, Plexiglas® DR Frosted acrylic sheet is a perfect fit for POP displays, store fixtures, signage, and decorative furnishings that require additional impact resistance.



Features

- Improved toughness
- Excellent diffusion characteristics
- Exceptional light transmission
- Lightweight - Half the weight of glass
- Easily fabricated and thermoformed
- Colors available upon request



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PLEXIGLAS® DR FROSTED

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Standard Offering

ACRYLIC SHEET

- Thickness range from 0.080" to 0.472"
- Standard sheet sizes available
- Run to size available upon request

Technical Specifications

	Measurement method	Unit	Plexiglas® DR Frosted Value
Physical			
Nominal thickness for data unless noted		In	0.118
Specific Gravity	ASTM D-972	n/a	1.16
Rockwell Hardness	ASTM D-785	M scale	49
Optical			
Luminous Transmittance	ASTM D-1003	%	85
Haze	ASTM D-1003	%	>95
Mechanical			
Tensile Strength, Maximum	ASTM D-638	psi	6300
Tensile Strength, Yield	ASTM D-638	psi	6000
Tensile Elongation, Yield	ASTM D-638	%	5
Tensile Modulus of Elasticity	ASTM D-638	psi	305,500
Flexural Strength, Maximum	ASTM D-790	psi	10,500
Flexural Modulus of Elasticity	ASTM D-790	psi	309,500
Notched Izod Impact @ 73°F (23°C)	ASTM D-256	ft-lbs / in	1.12
Un-notched Charpy @ 73°F (23°C)	ASTM D-6110	ft-lbs / in	15.6
Thermal			
Deflection Temp Under Flexural Load @264 psi – un-annealed	ASTM D-648	°F	172
Deflection Temp Under Flexural Load @264 psi – annealed (16 hrs @ 176°F)	ASTM D-648	°F	193
Maximum Recommended Continuous Service Temperature		°F	145 – 160
Recommended Thermoforming Temperature		°F	275-350
Craze Resistance			
Constant Stress Craze Resistance, IPA	MIL-PRF-8184	psi	2400
Constant Stress Craze Resistance, Acetone	MIL-PRF-8184	psi	1100
Flamability and Specification Compliance			
Self Ignition Temperature	ASTM D-1929	°F	460
Horizontal Burn Rate	ASTM D-635	in / min	1.33
Smoke Density	ASTM D-2843	%	28.7

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