PLEXIGLAS® FROSTED

Technical Properties

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			
Refractive index (ND @ 73°F (23°C))	ASTM D-542	-	1.49
Luminous transmittance	ASTM D-1003	%	85
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	-	f1 (≥ 0.080" colorless) 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")
Standard specification for PMMA acrylic plastic sheet	ASTM D-4802	-	Category B-1, Finish 2

Data given are average values and should not be used for specification purposes.

[1] This property will change with thickness. The value given is for the thickness indicated in the column heading unless otherwise noted.
[2] Tests performed on 0.080" thickness.
[3] Flammability tests are small scale tests and may not be indicative of how materials will perform in an actual situation.