

Product Data - Plexiglas Frosted Acrylic



Typical Properties

Property	Test Method	Units	Values
GENERAL			
Nominal thickness	N/A	in	0.236"
Specific gravity	ASTM D 792	-	1.18
Rockwell hardness	ASTM D 785	M scale	95
OPTICAL			
Refractive index	ASTM D 542	-	1.49
Luminance transmittance	ASTM D 1003	%	85
MECHANICAL			
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			
Deflection under flexural load @ 264 psi	ASTM D 648	°F	185
Max. recommended continuous service temp.	N/A	°F	170 - 190
Recommended thermoforming temperature	N/A	°F	275 - 350
FLAMMABILITY COMPLIANCE			
Horizontal burn rate	ASTM D 635	In/min	1.0
Smoke density	ASTM D 2843	%	2.0
Self-ignition temperature	ASTM D 1929	°F	850
Plastics component QMFZ2.E3943	UL 94	-	HB (≥0.080" All)
Plastics component QMFZ2.E3943 - outdoor	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 spec for PMMA acrylic plastic sheet	ASTM D 4802	-	Category B-1, Finish 2

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