



100% Acrylic Material Technical Data Sheet

PROPERTIES	TYPICAL RESULTS	TEST PROCEDURE
Specific gravity	1.70 g/cm ³	ASTM D 792, GB/T 17657
Flexural strength	>7,980 psi	ASTM D 790, JC 908
Flexural modulus	>9.6x10 ⁵ psi	ASTM D 790, JC 908
Hardness	≥90 Rockwell "M" Scale ≥55 Barcol Impressor	ASTM D 785 ASTM D 2583, JC 908
Thermal expansion	2.0 x 10 ⁻⁵ in/in F°	ASTM D 696
Water absorption	<0.03%	ASTM D 570
Gloss (60 Gardner)	Between 8 – 25	NEMA LD-3
Color stability	No change-200hrs	NEMA LD-3
Chemical resistance	Pass	ANSI Z 124, JC 908
Stain resistance	Pass	ANSI Z 124
Abrasion resistance	Pass	ANSI Z 124
Boiling water surface resistance	No effect	NEMA LD-3
High temperature resistance	No effect	NEMA LD-3
Pencil hardness	≥ 4H	GB/T 6739
IZOD impact resistance (notched)	>4 KJ/m ² or >1.9 ft-lbs/in ²	ASTM D 256
Ball drop (300x300mm) sheet, 60" drop	½ pound ball, pass	NEMA LD-3
Bacterial resistance	No growth	ASTM G 22
Fungi resistance	No growth	ASTM G 21
Oxygen index	>35	JC 908
Flammability Flame spread Smoke density	Class A / Class 1 10 10	UBS 8-1 ASTM E 84 ASTM E 84
Thermoform ability (1/2" thickness)	Minimum radian 3"	