



Physical and Performance Properties

½ inch Phosphorescent Acrylic Solid Surface Material

Property	Average Result	Test Procedure
Tensile Strength	6,000 psi	ASTM D 638
Tensile Modulus	1,200,000 psi	ASTM D 638
Flexural Strength	10,000 psi	ASTM D 790
Flexural Modulus	1,200,000 psi	ASTM D 790
Elongation	0.40%	ASTM D 638
Hardness	60 Barcol Hardness	ASTM D 2583
Thermal Expansion	2.3 x 10 ⁻⁵ in/in/°F	ASTM D 696
Color Stability (Daylight)	No Change – 200 Hours	NEMA DL-3-3.3
Stain Resistance	Pass	ANSI Z124.3 & Z124.6
Abrasion Resistance	Pass	ASTM C 501
Boiling Water Resistance	Pass – No Visual Effect	NEMA LD3-2000 Method 3.5
High Temperature Resistance	Pass – No Visual Effect	NEMA LD3-2000 Method 3.6
Izod Impact (Notched)	0.25 ft. lb./in.	ASTM D 256
Ball Drop	144" w / ½ lb. steel ball	NEMA LD-3-3.8
Specific Gravity	1.75 – 1.80	ASTM D 792
Water Absorption	0.04% - 24 hrs.	ASTM D 570
Flammability Flame Spread Smoke Developed	Class I & A 0-25 0-450	Class I & A ASTM E-84 ASTM E-84
Radiant Heat Resistance	Pass – No Visual Effect	NEMA LD3-3.10
Fungal Resistance	No Growth	ASTM G-21
Bacterial Resistance	No Growth	ASTM G-22
Visual Defects	Pass	ISSFA-2-01 (SST 5.1-00)
Consistency of Color	Pass	ISSFA-2-01
Flatness of Sheets	Pass	ISSFA-2-01 (SST 4.1-00)