



## Property Specifications

Properties	Unit	Result	Test Standard
Specific Gravity	g/cm <sup>3</sup>	1.8	
Tensile Strength	Psi	5,400	ASTM D 638
Tensile Modulus	Psi	1.4x10 <sup>6</sup>	ASTM D 638
Elongation	% min	0.42	ASTM D 638
Flexural Strength	Psi	9,200	ASTM D 790
Flexural Modulus	Psi	1.38x10 <sup>5</sup>	ASTM D 790
Hardness (Rockwell)		92	ASTM D 785
Thermal Expansion	Mm/m c	3.04x10 <sup>-5</sup>	ASTM D 696
Gloss (60° Gardner)		5 ~ 20	ANSI Z124
Color Stability		No change	NEMA LD3
Wear & Cleanability		Passes	ANSI Z124
Boiling Water Surface Resistance		No change	NEMA LD3
High Temperature Resistance		No change	NEMA LD3
Stain Resistance		Passes	NEMA LD3
Impact Resistance		No fracture	NEMA LD3
IZOD Impact Strength	Ft.lbs/in	0.28	ASTM D256
Water Absorption Weight	% max	0.03	ASTM D 570
Fungi & Bacteria		No attack	ANSI Z124
Wetherability		No change	ASTM D 1499
NSF 51	Listed	All Colors	NSF

*\*\* Above data represent general properties of products and shall not be regarded as legal basis*

*\*\* Above data can be changed without preliminary notice by reason of request from customer and improvement of product quality*

## Chemical Composition

Material Name	Remark
MMA (Methyl Methacrylate)	Resin
PMMA (Polymethyl Methacrylate)	Resin
AL (OH) <sub>3</sub> – Alumina Trihydrate	Filler
UV Aborbers, Cross Linking Agents, Stabilisers, Curing Agents, Etc.	Additives

## Early Fire Hazard indices\*

Indices	Results	Range
Ignitability Index	9	0~20
Spread of Flame Index	0	0~10
Heat Evolved Index	1	0~10
Smoke Density Index	0	0~10

*\*\* Indices when tested to ASTM E-84-01 in SGS U.S. Testing Company Inc. 2-2003*

*\*\* Note: Test results may vary due to color and particulate siz. However, result changes will only be minor.*

## Test Result of Hanex® Reaction to Fire

1. SGS U.S. Testing Company Inc. (U.S.A. Feb 2003)
  - ✓ Class A according to the national Fire Protection Association, ANSI/NFPA NO. 101, "Life Safety Code", 1994 Edition
  - ✓ Class A according to the Uniform Building Code, 1994 Edition, Chapter 8, Interior Finishes, Section 801-07
2. Centre Scientifique Et Techniques Du Batiment (France. Jun 2001)
  - ✓ Class MI according to the N° RA01-290B
3. Materialprüfungsamt Nordrhein-westfalen (Germany, May 2003)
  - ✓ Class BI according to the DIN 4102-01 (May 1998)