

■ PROPERTIES OF HANEX®

PROPERTY	UNIT	RESULT	TEST METHOD	REMARK
Specific Gravity	g/cm ³	1.8		
Tensile Strength	psi	5400	ASTM D 638	INSTRON
Tensile Modulus	psi	1.4 × 10 ⁶	ASTM D 638	INSTRON
Elongation	%min	0.42	ASTM D 638	INSTRON
Flexural Strength	psi	9200	ASTM D 790	INSTRON
Flexural Modulus	psi	1.38 × 10 ⁵	ASTM D 790	INSTRON
Hardness(Rockwell)		92	ASTM D 785	M scale
Thermal Expansion	mm/m. C	3.04 × 10 ⁻⁵	ASTM D 696	
Gloss(60 degree Gardner)		5-20	ANSI Z 124	
Color Stability		No change	NEMA LD3	200 hours
Wear & Cleansability		Passed	ANSI Z 124	
Boiling Water Surface Resistance		No change	NEMA LD3	
High Temperature Resistance		No change	NEMA LD3	
Stain Resistance		Passed	NEMA LD3	
Impact Resistance		No fracture	NEMA LD3	1/4"slab-36"drop-1/2 lb ball
IZOD Impact Strength	ft. lbs/in	0.28	ASTM D 256	Notched
Water Absorption Weight	%max	0.03	ASTM D 570	
Fungi and Bacteria		No attack	ANSI Z124	
Weatherability		No change	ASTM D 1499	1000 hours

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

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

■ CHEMICAL COMPOSITION

● HANEX®

MATERIAL NAME	REMARK
MMA(Methyl Metacrylate)	Resin
PMMA(Poly Methyl Metacrylate)	Resin
AL(OH)3 - Alumina Trihydrate	Filler
UV Absorbers, Crosslinking Agents, Stabilizers, Curing Agent, ETC.	Additives

● Adhesive

MATERIAL NAME	REMARK
MMA(Methyl Metacrylate)	Base Component
PMMA(Poly Methyl Metacrylate)	
AL(OH)3 - Alumina Trihydrate	
ADDITIVES	
B.P.O.(Benzoyl Peroxide)	Hardener
D.B.P.(Di Butyl Phthalate)	

■ Early Fire Hazard Indices

INDICES	RESULT	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 size. However, result changes will be only minor.

■ Chemical and Stain Resistance

HANEX® is an acrylic solid surface with a high level of alumina trihydrate content as the filler, an ingredient which provides superior resistance to stains and chemicals. However, exposure to harsh chemicals should be avoided. In case of surface contamination, quickly flush affected area with a domestic gritty cleaner and water. Sand if necessary, as a rule of thumb, surface damage may vary with the chemical strength and exposed time.