

Composition - Properties of Hanex®

Properties	Unit	Result	Test Method	Remark
Specific Gravity	g/cm ³	1.8		
Tensile Strength	Psi	5,400	ASTM D 638	INSTRON
Tensile Modulus	Psi	1.4x10 ⁶	ASTM D 638	INSTRON
Elongation	% min	0.42	ASTM D 638	INSTRON
Flexural Strength	Psi	9,200	ASTM D 790	INSTRON
Flexural Modulus	Psi	1.38x10 ⁵	ASTM D 790	INSTRON
Hardness (Rockwell)		92	ASTM D 785	M scale
Thermal Expansion	Mm/m c	3.04x10 ⁻⁵	ASTM D 696	
Gloss (60° Gardner)		5 - 20	ANSI Z124	
Color Stability		No Change	NEMA LD3	200 hours
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	1/4" slab-36" drop-1/2lb ball
IZOD Impact Strength	Ft.1bs/in	0.28	ASTM D 256	Notched
Water Absorption Weight	% max	0.03	ASTM D 570	
Fungi & Bacteria		No Attack	ANSI Z124	
Wetherability		No Charge	ASTM D 1499	1000 hours

Chemical Composition

Table detailing the chemical composition of Hanex®

Material Name	Remark
MMA (Methyl Methacrylate)	Resin
PMMA (Polymethyl Methacrylate)	Resin
AL (OH) ₃ - Alumina Trihydrate	Filler
UV Absorbers, Cross Linking Agents, Stabilisers, Curing Agents, Etc. Additives	