

HIMACS® Product Performance Properties

Dimensions and Weights - Actual (Nominal)			
All manufacturing dimensions are metric			
Thickness	Width	Length	Weight
6 mm (1/4")	760 mm (30")	2,490 mm (98")	20 kg (45 lbs.)
9 mm (3/8")	760 mm (30")	3,680 mm (145")	43 kg (95 lbs.)
12 mm (1/2")	760 mm (30")	3,680 mm (145")	57 kg (126 lbs.)

HIMACS meets or exceeds these International Standards Organization (ISO) requirements	
ISO 14001	Environmental Management Systems
ISO 9001	Quality Management Systems
ISO 18001	Occupational Health and Safety Management Systems
ISO (iso.org) is an independent, non-governmental international organization with a membership of 164 <i>national standards bodies</i> .	

Environmental Compliance		
For all HIMACS Sheets and for LX Hausys branded Joint Adhesive		
Certification	Standard	Description
Low VOC Offgassing	UL2818 (Greenguard)	2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings
Low VOC Offgassing	UL 2818 (Greenguard Gold)	2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings
Low VOC Offgassing	SCAQMD Rule #1168	California Air Resources Board (CARB), South Coast Air Quality Management District (SCAQMD)
Fungi Resistance	ASTM G21*	Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi
Recycled Content	SCS-MC-01491	HIMACS "Eden Collection" contains up to 10% Pre-Consumer (post-industrial) recycled content

Product Declarations	Valid Until
Environmental Health Product Declaration (EPD)	4/2022

Physical Test Results		
Attribute Tested	Standard	Results
Tensile Strength	ASTM D638	6,000 psi
Tensile Modulus	ASTM D638	1.5 x 10 ⁶ psi
Tensile Elongation	ASTM D638	0.5%
Flexural Strength	ASTM D638	8,407 psi
Flexural Modulus	ASTM D638	1.34 x 10 ⁶ psi
Hardness (Rockwell)	ASTM D2583	90 (Pass)
Hardness (Barcol)	ASTM D2583	65
Thermal Expansion	ASTM D696	1.65 x 10 ⁻⁵ mm/mm-°C
Deflection Temperature	ASTM D648	194°F

Suitability & Fitness Test Results		
Attribute Tested	Standard	Results
Food Contact	NSF 51	Passed (Indoor)
Light Resistance (UV)	NEMA LD 3.3 ISFA SST 7.1	Passed
Cleanability / Stain Resistance	NEMA LD 3.4 ISFA SST 3.1	Passed
Boiling Water Resistance	NEMA LD 3.5 ISFA SST 8.1	Passed
High Temperature Resistance	NEMA LD 3.6 ISFA SST 9.1	Passed
Scratch Resistance	ISFA SST 6.1 NEMA LD 3.7	Passed
Ball Impact Resistance	NEMA LD 3.8 ISFA SST 5.6	8 oz @ 144" - Passed
Radiant Heat Resistance	NEMA LD 3.1	Passed
Wear / Cleanability	ANSI Z-124.3	Passed
Wear / Cleanability	ANSI Z-124.6	Passed

*Note: ASTM G 22 "Bacteria Resistance Standard" was withdrawn by ASTM in 2002 and has not been replaced.

NEMA is National Electrical Manufacturers Association.

ISFA is International Surface Fabricators Association.

ASTM was formerly known as American Society for Testing and Materials.

ANSI is American National Standards Institute.

NEMA tests are not "rigorous" but are widely accepted residential kitchen/bath industry standards.

Flammability, Flame Spread, and Smoke Developed Performance Properties				
Certification	Standard	Results	FSI	SDI
Flammability - USA	ASTM E-84/UL 723	Class A	<25	<25
Flammability - USA	NFPA 101	Class A		
Flammability - Canada	ANSI/UL 723CAN/ULC-S102-10	Passed	30	10
Flammability - Canada	ANSI/UL 723CAN/ULC-S102.2	Passed	0	0
Flammability - Europe	EN-13501	Class B-s1, d0		
Toxicity	Pittsburgh Protocol	2.36 oz (66.9 g)		

FSI is Flame Spread Index.

SDI is Smoke Developed Index.