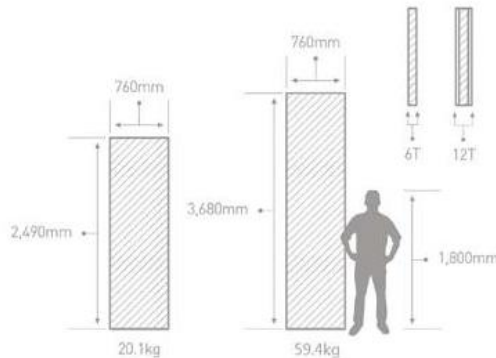


The product technical data sheet discusses the performance of Hanex Solid Surfaces. Performance results are specific to the standard tested. The standards may be used as product specifications in other regions other than what is stated below.



About Hanex Solid Surfaces

Hanex Solid Surfaces are made with a composition of Methyl Methacrylate (MMA), Poly Methyl Methacrylate (PMMA) resin filled with Alumina Trihydrate (ATH), and other specialized formats to give timeless beauty and quality.

Hyundai L&C is able to produce solid surface sheets up to 1,520mm wide. These wide sheets allow for a much higher degree of flexibility and efficiency in fabrication and installation. Wide sheets for most available colors require custom orders and minimum order quantity.

* LEED Credit: You can get points for LEED v4.1 BD+C and ID+C from USGBC (American Green Building Council) for building projects using Hanex.

Plant Management System

System	Standard
Quality Management Systems	ISO 9001
Environmental Management Systems	ISO 14001
Occupational Health & Safety Management Systems	ISO 45001

Product Declaration

Declaration	Expiry Date
EPD (Environmental Health Product Declaration)	2026 Jul 01
HPD (Health Product Declaration)	2023 Oct 20

Physical Test

Test	Standard	Result
Tensile Strength	ASTM D638	43.1 Mpa
Tensile Modulus of Elasticity	ASTM D638	12.1 Gpa
Flexural Strength	ASTM D790	65.3 Mpa
Flexural Modulus of Elasticity	ASTM D790	10.8 Gpa
Rockwell Hardness	ASTM D785	88
Izod Impact	ASTM D256	17 J/m
Water Absorption	ASTM D570	0.03 g/cm ³
Density (23°C)	ASTM D792	1.81 g/cm ³
Deflection Temperature	ASTM D648	106 °C
Thermal Expansion	JIS K 6911	3.5x10 ⁻⁵ /°C
Heat Resistance	JIS K 6902	No Defects
Heat Water Resistance	JIS K 6902	No Defects

Test	Standard	Result
Contact with Foods	NSF 51	Pass
Light Resistance	NEMA LD3	Pass
Boiling Water	NEMA LD3	Pass
Ball Impact Resistance	NEMA LD3 ISO 4586-2	Pass (Max Height 2.5m) Pass (Max Height 2.0m)
Point Impact Resistance	ANSI Z124.3	Pass
Stain Resistance	ANSI Z124.3	Pass
Wear and Cleanability	ANSI Z124.3	Pass
Cigarette Burn	ANSI Z124.3	Pass
Chemical Resistance	ANSI Z124.3 ISO 19712-3	Pass
Weatherability	ASTM G155	No Visual Change (1,000 hours)
Compressive Strength	ISO 604	118 MPa

Healthcare Environment Compliance

Test	Standard	Result	Description
VOC Emission	UL 2818	Greenguard, Greenguard Gold	Gold standard for chemical emissions for building materials, finishes and furnishings
TVOC Emission	ISO 16000-9	0.015 mg/m ² ·h	Emission of volatile organic compounds from building products and furnishing
SVHC	SGS in House	Pass	Substances of very high concern for authorization by European Chemicals Agency
Phthalate Content	KS M 1991	Not Detected	Determination of phthalates content in polymer materials
Fungi Resistance	ASTM G21	No Growth	Standard practice for determining resistance of synthetic polymeric materials to fungi
Bacteria Resistance	ASTM G22	No Growth	Standard practice for determining resistance of plastics to bacteria

Fire Performance

Test	Standard	Region	Class
Surface Burning	ASTM E84	United States	Class A (Smoke developed index : 10, Flame spread index : 20)
Euroclass Reaction to Fire	EN 13501-1	Europe (CEN Members)	Class B (Smoke production : s1, Flaming droplets : d0)
Railway	EN 45545	Europe (CEN Members)	R1 for HL3

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