

 SUSTONABLE The Circular Design Surface	TECHNICAL DATA SHEET SUSTONABLE – S73 SERIES	Document No	TDS-2
		First Release:	26.03.2025
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Test	Standard	Unit	Result
<i>Mechanical Properties</i>			
Flexural Strength	EN 14617-2	Mpa	45,5 , F ₄
	ASTM D790	Mpa	41,7
Breaking Strength	ASTM C648	lbf	363
Bond Strength	ASTM C482	-	3780 N ; 0,009216 m2 ; 0,41 MPa
Impact Resistance	EN 14617-9	J	3,73
	NEMA LD 3-3.8	Inch	15,75 (224 g steel bar with 1-1/2" diameter)
Abrasion Resistance	EN 14617-4	mm	18,41 , A ₄
	ASTM C1353	lw	528,61
<i>Physical Properties</i>			
Dimensional Stability	EN 14617-12	-	Class A : Stable and not sensitive to humidity
Water Absorption	EN 14617-1	%	0,20 , W ₃
	ASTM C97	%	0,072
Apparent Density	EN 14617-1	Kg/m ³	2017,85
Bulk Specific Gravity	ASTM C97	-	2,018
Freeze-Thaw Resistance Coefficient	EN 14617-5	-	106,5
<i>Thermal Properties</i>			
High Temperature Resistance	EN 12722 *	At 180 °C	Class: 4
	NEMA LD 3-3.6	At 180 °C	No Effect
Boiling Water Resistance	EN 12721 *	At 100 °C	Class: 3
	NEMA LD 3-3.5	At 100 °C	Moderate Effect
Thermal Shock Resistance	EN 14617-6 (20 cycle)	%	Avg. Mass Change: 0,069% Avg.Flex. Str. Change: 33%
Linear Thermal Expansion Coeff.	EN 14617-11	10 ⁻⁶ /°C	18,12
	ASTM E228	10 ⁻⁶ /°C	18,36
Thermal Conductivity	EN 12664	W/m·K	2.07

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Test	Determination	Standard	Unit	Result
Surface Resistance Properties				
Stain Resistance	Contrasting Grout	ASTM C1378-04 **	-	NA
	Carbon Lamp Black			NA
	Waterproof Ink			A
	Washable Ink			NA
	Potassium Permanganate Solution			A
	Methylene Blue Solution			A
Chemical Resistance	Acetic Acid, 3% v/v	ASTM C650 **	-	NA
	Acetic Acid, 10% v/v			A
	Ammonium Chloride, 100 g/L			NA
	Citric Acid Solution, 30 g/L			NA
	Citric Acid Solution, 100 g/L			A
	Lactic Acid, 5% v/v			NA
	Phosphoric Acid, 3% v/v			NA
	Phosphoric Acid, 10% v/v			NA
	Sulfamic Acid, 30 g/L			NA
	Sulfamic Acid, 100 g/L			A
Fire Classification				
Reaction to Fire	EN 13501-1	Class	C – s2 – d2	

* Tests were performed in Sustonable's internal laboratories. All other tests were conducted by accredited third-party laboratories.

** NA: Not Affected , A: Affected