TECHNICAL CHARACTERISTICS

CHARACTERISTICS	TEST METHOD	UNIT OF MEASUREMENT	POLARSTONE® Engineered Surfaces (RANGE OF VALUES)
Density	ASTM C97/C97M-09	Kg/M^3 LBS/FT^3	2200 - 2400 137 - 146
Abrasion Resistance (Polished)	ASTM C241/C241M-13	mm	27.5
Flexural Strength (Modules of Rupture)	ASTM C99	PSI	6090 - 9860
Water Absorption	ASTM C97/C97M-09	%	0.04
Absorption by Weight	ASTM C97/C97M-09	%	0.04
Resistance to Deep Abrasion	ASTM C241	Index	49 - 54
Compressive Strength (Dry)	ASTM C170/C170M-14	PSI	28,275 - 31,900
Linear Thermal Expansion	ASTM C531-00(2012)		26 ×10-6/℃
Compressive Strength (Wet)	ASTM C170/C170M-14	Mpa	205
Coefficient of Thermal Expansion	EN 103	20-70ºC AT (10º/C)	239 - 341
Hardness	EN 101	Moh's Scale	5- 6.5
Slip Resistance	DIN 51130	Honed 400 Polished	R9 - R10
Resistance to Chemical Acids	ASTM C650-04(2009)		Not Affected
Mean Water Absorption	ASTM C97/C97M-09	%	0.04
Maximum Individual Depth of Staining		mm	0.1
Standard deviation		mm	±0.01
Suitability for Use in Kitchen Bench Tops	EMPFEHLUNG XII BGVV		Suitable
Stain Resistance	ASTM C650		Passes
Flame Spread Index	ASTM E84:09c		5*
Smoke Developed Index	ASTM E84:09c		50*
Flexure Strength	ASTM C880/C880M-09	Mpa	"dry" 70.5 Mpa "wet" 70.2 Mpa
Thermal Shock	ASTM C484		Passed 5 Cycles

Note: The values quoted above for POLARSTONE® Engineered Surfaces are the average range of values.