

Physical Characteristics

PROPERTY	TYPICAL RESULT	TEST PROCEDURE
Thermal Shock	Passes	ASTM C-484
Breaking Strength*	1,309 lbs	ASTM C-448
Compression Strength	24,503 psi	ASTM C-170
Abrasion Resistance	60+	ASTM C-241
Thermal Expansion	1.2 × 10 ⁻⁵	ASTM C-531
De-Icing	No Effect	ASTM C-672
Flame Spread	10	ASTM E-84
Smoke Developed	115	ASTM E-84
Freeze-Thaw Cycles	Passes	ASTM C-1026
Mohs Hardness*	Excite Collection 6 All Others 7	Mohs' Hardness Scale
Ultra Violet Light Resistance	Passes	ASTM G-23
Food Zone Compliance	Passes	NSF-51 Qualified

Comparative Performance

PROPERTY	TEST PROCEDURE	DIFINITI™	MARBLE	GRANITE	AVERAGE MARBLE AGGLOMERATE
Flexural Strength*	ASTM C-880	5,039 psi	2,300 psi	1,450 psi	2,000-4,000 psi
NTMA Impact Strength	2 lbs ball from 8'	Passes	Fails	Fails	Varies
Abrasive Wear Index*	ASTM C-501	200+	15-90	100-250	40-70
Static Coefficient of Friction* (dry/wet) - Polished (generally stocked) OR - Honed (generally special order)	ASTM C-1028	Averages 0.6 and above	Varies	Varies	Varies
Water Absorption* (% by weight)	ASTM C-97	0.03%	2-15%	0.02-1.0%	0.15-3.0%
Stain & Chemical Resistance	ASTM C-650	No effect	Stains	Varies by color	Stains
Dimensional Stability	Gabrielli Apparatus	Class 1 to 3	Class 1 to 3	Class 1 to 2	Class 1 to 3

*Some test results may vary by material type. Physical characteristics reflect the range of results across all materials.