

TECHNICAL DATA

QSTONE Performance Properties

PROPERTY	TYPICAL RESULT	UNIT	TEST METHOD
Physical Properties			
Nominal Thickness	1.5, 20 AND 30mm	mm	DIN ISO 1183
Nominal Weight	37(1.3cm), 49(2cm), 74(3cm)	kg/m ²	
Density	2.4-2.5	g/m ³	
Mechanical Properties			
Flexural strength	>35	MPa	DIN EN ISO 178
Flexural modulus	32,000-42,000	MPa	
Compressive strength	175-275	MPa	
Flexural elongation	0.11-0.16	%	
Ball impact resistance	No cracks at falling height of 1200mm		DIN ISO 4586 T12
Hardness	6-8	Mohs	DIN EN 101:1992-01
Coefficient of linear thermal expansion	0.05	%	DIN ISO 4586 T10
Performance properties			
Scratch resistance	2.5+/-0.5	N	DIN EN 438, part 14
Resistance of dry heat (@180°C)	Level 5, No colour change		DIN ISO 4586 T8
Resistance to cigarette burns	Level 5, No colour change		DIN ISO 4586 T17
Chemical resistance	See Table 2	1/K	DIN EN 438, part 15
Contamination by mold-fungus	Suitable as kitchen counter top		LGA
NSF Certification	Listed		NSF Stds
Water absorption (24h)		%	DIN ISO 4586 T7
% thickness	0.08-0.10		
% mass	0.04-0.06		
UV-stability (Xenon Arc)	Level 6		DIN ISO 4586 T16
Resistance to slippage wet area	Class C (standard 25°, unpolished >30°)		DIN 51 130-11, 1992
Resistance to slippage	Class R9 (standard 7.4°, unpolished >8.4°)		
Reaction to fire **			
Reaction to fire: flame spread	Class 1		BS 476, part 7, 1997
Reaction to fire, fire propagation index, 1	1.4		BS 476, Part 6, 1989
Reaction to Fire: Flame Spread	B1		DIN 4102/B1
Miscellaneous			
Kosher Certification	Certified		Star-K Kosher Certif