

QSTONE

QUARTZ SURFACE SOLUTIONS

TECHNICAL DATA

PERFORMANCE PROPERTIES OF DIRESKO STONE

PROPERTY	TYPICAL RESULT	UNIT	TEST METHOD
Physical Properties:			
Nominal Thickness	12, 20 and 30 mm	mm	DIN ISO 1183
Nominal Weight	32 (12mm), 49 (20mm), 74 (30mm)	kg/m ²	
Density	2.4 –2.5	g/cm 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°)		
Styrene Content	< 1,00	mg/kg	BRETON DAG/GC/as
BTEX Content	< 4,00	mg/kg	
Reaction to fire:			
Reaction to fire: flame spread	Class 1		BS 476, part 7, 1997
Reaction to fire, fire propagation index >1	Class 0		BS 476, Part 7, 1997
Reaction to fire: flame spread	B1		DIN 4102/B1
Miscellaneous:			
NSF Certification	Listed		National Sanitation Foundation
Green label "environment and health safe"	Certified		BRETON DAG/GC/as
Kosher Certification	Certified		Star-K Kosher Certification

CHEMICAL RESISTANCE

The following reagents show no permanent affect on sheets when left in contact for periods of 12 hours.

The chemical residues can be removed with for example a wet light duty Scotch-Brite sponge and a nonabrasive cleaner like glass & surface cleaner,

Acetic Acid	Coke-Beverages	Ink	Salt-Acidity (max. 3%)	Vinegar
Acetic Acid (5%)	Coffee	Lemon Juice	Sanitary Cleaner	Water
Acetone	Concentrated Milk	Lipstick	Shoe Polish	Wine (All varieties)
Ammonia Washer	Disinfectants	Mustard	Soapiness Detergents	
Benzene	Ethyl-Butyl-Acetate	Nail Polish	Sodium Carbonate	
Blue Berries	Hand Creme	Nail Polish Remover	Sodium Hudroxide	
Butter	Household Soaps	Olive Oil	Tea	
Citric Acid (5%)	Hydrogen-Super-Oxides	Salt	Toothpaste	

THE 10 YEAR LIMITED INSTALLED AND PRODUCT WARRANTY DOES **NOT** APPLY WHERE STRONG CHEMICAL REAGENTS COME IN CONTACT WITH THE SLABS.

The following residues may require more cleaning for complete removal (with Methanol for example):

Ball Point Pen Black/Paste Ink Iodine Soda Lye (10%)

Attention!! Stains from these materials which are completely dried out are very hard to remove!!