UNION TILES EST.1922

TECHNICAL SPECIFICATIONS

ZEN SERIES FULL BODY 300x600 / 600x600mm

CHARACTERISTICS	Test Method	REQUIREMENT		MATT
PHYSICAL CHARACTERISTICS				
LENGTH & WIDTH	ISO 10545-2	+/-0.6%* +/-0.5%**		+/-0.1% +/-0.1%
THICKNESS		+/-5.0%		Suitable for
STRAIGHTNESS OF SIDES		+/-0.5%		+/-0.1%
RECTANGULARITY		+/-0.6%		+/-0.1%
SURFACE FLATNESS		c.c. +/-0.5%	Not applicable to structured	+/-0.3%
		e.c. +/-0.5%		+/-0.3%
		w. +/-0.5%		+/-0.3%
STRUCTURAL CHARACTERISTICS				
WATER ABSORPTION	ISO 10545-3	≤0.5%		≤0.4%
MECHANICAL CHARACTERISTICS				
BREAKING STRENGTH	ISO 10545-4	S ≥ 1300 N		S ≥ 2000 N
MODULUS OF RUPTURE		R ≥ 35 N/mm^2		R ≥ 36 N/mm^2
SURFACE SPECIFICATIONS				
Mohs HARDNESS	EN 101	Matt ≥6	Str. ≥6	Suitable for
RESISTANCE TO DEEP ABRASION	ISO 10545-6	≤175 mm^3		≤150 mm^3
THERMAL AND HYGROMETRIC CHARACTERISTICS				
COEFFICIENT OF THERMAL LINEAR EXPANSION	ISO 10545-8	Test method available		≤ 7 MK-^{1}
THERMAL SHOCK RESISTANCE	ISO 10545-9	Test method available		Resistant
RESISTANCE TO FROST	ISO 10545-12	Required		Resistant
SAFETY PARAMETERS				
DYNAMIC FRICTION COEFFICIENT	METODO B.C.R.A.	D.M.I. Giugno 1 989 n.236 (μ >0.40)		>0.40
STATIC COEFFICIENT OF FRICTION	ASTM C 1028 (S.C.O.F.)	Slip Resistant (> 0.60)		≥0.60 Dry ≥0.50 Wet
NON-SLIP CLASSIFICATION	DIN 51130	Structured/Rough Matt		R10 R9
CHEMICAL RESISTANCE				
RESISTANCE TO HOUSEHOLD CHEMICALS AND SWIMMING POOL SALTS	ISO 10545-13	Class UB min.		UA
RESISTANCE TO LOW CONCENTRATIONS OF ACIDS AND ALKALIS		Manufacturer to state classification		ULA
RESISTANCE TO HIGH CONCENTRATIONS OF ACIDS AND ALKALIS		Test method available		UHA
RESISTANCE TO STAINING	ISO 10545-14	Test method available		5

SLIP RESISTANCE

R9	R10	R11	R12	R13
6°-10°	10°-19°	19°-27°	27°-35°	>35°

Note: The classification gives the parameter to determine the sliding resistance. The group R9 is less anti-slip, while the group R13 has the maximum effectiveness.

19 North Reef Road, Bedfordview East, Germiston, Gauteng, 2008, SOUTH AFRICA
TEL: (+27 11) 663 2000 FAX: (+27 11) 455 5395
E-MAIL: info@uniontiles.co.za WEB: www.uniontiles.co.za