

Specification	Unit	Result		Test methods
		Solids	Granite	
Flexural-E-modulus	MPa	8900	7730	DIN EN ISO 178
Flexural strength	MPa	70.1	7730	ASTM D638
Breaking elongation	%	1	64.3	DIN EN ISO 178
Tensile strength	MPa	69.5	1.1	DIN EN ISO 527
Density	g/cm ³ kg/m ³	1.75 1750	1.65 1650	ISO 1183 ISO 1183
Ball indentation hardness	N/mm ²	257	239	DIN EN ISO 2039-1
Mohs hardness		2 bis 3	2 bis 3	EN 101
Pencil hardness		>9H	>9H	ISO 15184
Water absorption weight strength/thickness		<0,1% <0,1%	<0,1% <0,1%	ISO 15184
Impact resistance impactor drop ball test (fall height)	N mm	≥25 ≥1500	≥25 ≥1500	E DIN EN 438, 02/02 Partie 2/20 E DIN EN 438, 02/02 Partie 2/21
Slip resistance		>0,32 – 0,9		GMG100 (replaces R9)
Slip resistance		angle of acceptance of more than 10° to 19° = R10		DIN 51130
Climate change resistance	°C	≥0,05	≥0,05	AMK
Dry heat (pan base)	°C	≥100 (7C)		DIN 68 861, Partie 7, 04-'85
Damp heat (pan base)	°C	≥100 (7C)		DIN 68 861, Partie 8, 04-'85
Temperature change resistance	°C	no change		UNI 9429
Resistance to cigarette burns		6C	6B	DIN 68 861, Partie 6, 11-'82
Scratch resistance		4D	4B	DIN 68 861, Partie 4, 11-'81
Electrostatics Conductivity	> 1x10 ¹² Ω	insulating non-conductive		DIN IEC 1340-4-1, 04-'92 EN 61340-5-1
Thermal conductivity	W/mK	0.636	0.55	DIN EN 12664
Thermal resistance	m ² K/W		0.045	DIN EN 12664
Thermal expansion co-efficient	mm/mK m/m/°C	0.048 30.0 x 10-6	0.045	DIN EN 14581
Water vapor transmission properties – diffusion resistance factor	μ	18607	16150	DIN EN ISO 12572
Dimensional change by change in relative humidity length thickness mass	% % %	-0.03 0.06 0.05	-0.02 0.03 0.05	DIN EN 318, Edition 5, 1998
Resistance to boiling water increase in weight increase in thickness	% %	<0,1 <0,1	>0,1 <0,1	E DIN EN 438, 02/02 Partie 2/12
Light fastness (Xenon)	Echelle 0 – 10	better than 6	better than 6	DIN 53 387, 04-'89
Food tolerance		suitable for all colors		LMBG § 31
Hygiene		suitable	suitable	Certificat d'hygiène LGA
Fire protection classification Flame-retardant properties MPA/NRW HI-MACS® MPA/NRW (BAM) 12 mm (1/2") (BAM) 9 mm (3/8") + back-up (Bodycote/Warrington) 12 mm (1/2")		B1 non-dripping material B1 for all colours* B1 for all colours* B-s1 , d0 for all HI-MACS® colours* complies with BS 476 class 0		DIN 4102-1 DIN 5510 DIN 4102-1 BS EN ISO 11925-2 : 2002 BS EN 13823: 2002

* not currently applicable to Marmo, Galaxy, Volcanics, Lucent and Eden