

Specification	Unit	Result		Test methods	
		Solids	Granite		
Flexural-E-modulus	MPa	8900	7730	DIN EN ISO 178	
Flexural strength	MPa	70.1	64.3	ASTM D638	
Breaking elongation	%	1	1.1	DIN EN ISO 178	
Tensile strength	MPa	69.5	56.3	DIN EN ISO 527	
Density	g/cm ³	1.75	1.65	ISO 1183	
	kg/m ³	1750	1650	ISO 1183	
Ball indentation hardness	N/mm ²	257	239	DIN EN ISO 2039-1	
Mohs hardness		2 to 3	2 to 3	EN 101	
Pencil hardness		>9H	>9H	ISO 15184	
Water absorption				DIN EN 438 Part 12	
					weight
strength/thickness		<0,1%	<0,1%		
Impact resistance	N	≥25	≥25	E DIN EN 438, 02/02 Part 2/20 E DIN EN 438, 02/02 Part 2/21	
		drop ball test (fall height)	mm		≤1500
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, Part 7, 04-'85	
Damp heat (pan base)	°C	≤100 (8A)		DIN 68 861, Part 8, 04-'85	
Temperature change resistance	°C	no change		UNI 9429	
Resistance to cigarette burns		6C	6B	DIN 68 861, Part 6, 11-'82	
Scratch resistance		4D	4B	DIN 68 861, Part 4, 11-'81	
Electrostatics	>1x10 ¹² Ω	insulating non-conductive		DIN IEC 1340-4-1, 04-'92	
		Conductivity		EN 61340-5-1	
Thermal conductivity	W/mK	0.636	0.55	DIN EN 12664	
Thermal resistance	m ² K/W	0.038	0.045	DIN EN 12664	
Thermal expansion co-efficient	mm/mK	0.048	0.055	DIN EN 14581	
	m/m ^o C	30.0 x 10 ⁻⁶		DIN EN 14581	
Water vapour permeability					
Diffusion resistance factor	μ	18607	16150		
Dimensional change by change in relative humidity				DIN EN 318, edit. 5, 1998	
	length	%	-0.03		-0.02
	thickness	%	0.06		0.03
mass	%	0.05	0.05		
Resistance to boiling water				E DIN EN 438, 02/02 Teil 2/12	
					increase in weight
increase in thickness	%	<0,1	<0,1		
Light fastness (Xenon)	scale 0-10	better than 6	better than 6	DIN 53 387, 04-'89	
Food tolerance		suitable for all colours		LMBG § 31	
Hygiene		suitable	suitable	LGA Hygiene Certificate	
Fire protection classification Flame-retardant properties HI-MACS® MPA/NRW (BAM) 12 mm (BAM) 9 mm + back-up (Bodycote/Warrington) 12 mm	MPA/NRW	B1		DIN 4102-1	
		non-dripping material		DIN 5510	
		B1 for all colours*		DIN 4102-1	
		B1 for all colours*			
		B-s1 , d0		BS EN ISO 11925-2 : 2002	
for all HI-MACS® colours*		BS EN 13823: 2002			
		complies with BS 475 class 0			

* (not currently applicable to Volcanics)

HI-MACS® is extremely repellent to dirt and exceptionally hard-wearing, so that you can enjoy many years of pleasure with the outstanding quality of your new product.