

# HI-MACS® TECHNICAL DATA

## SHEET SPECIFICATION

Sheet thickness in mm (tolerance ± 0.4mm)	Sheet width in mm (tolerance +10mm)	Sheet length in mm (tolerance +10mm)
6	760	2,490
6	910	2,490
20	760	3,680
12	910	3,680
12	1,350	3,680
12	1,520	3,680
12	760	3,680

Weight/m2	Thickness	Solids result	Unit	Granite Result	Unit
	6mm	10.52	kg	4.9	kg
	12mm	20.7	kg	1.96	kg
	20mm	33.2	kg		

Weight sheets	Thickness	Width/Length	m2 Sheet	Kg/Sheet
HI-MACS®	6mm	760/2,490	1.9	20-21
	12mm	760/3,680	2.8	57-61
	20mm	760/3,680	2.8	95-105

## STAIN RESISTANCE

according to DIN 68861 & KIN 68930 Tab. 1

Test material G25 defects	Assessment S06 defects	Assessment
Acetic acid (vinegar)	no effect	no effect
Citric acid (lemon)	no effect	no effect
Sodium carbonate	no effect	no effect
Ammoniac water	no effect	no effect
Ethyl alcohol	no effect	no effect
White/Red/South wine	no effect	no effect
Beer	no effect	no effect
Cola-drinks	no effect	no effect
Instant coffee	no effect	no effect
Black tea	no effect	no effect
Blackcurrant juice	no effect	no effect
Cream	no effect	no effect
Water	no effect	no effect
Benzene	no effect	no effect
Acetone	3	3
Ethyl-butyl acetate	3	3
Butter	no effect	no effect
Olive oil	no effect	no effect
Mustard	no effect	no effect
Salt	no effect	no effect
Onion	no effect	no effect
Lipstick	no effect	no effect
Disinfectant	no effect	no effect
Black ballpoint	2	2-3
Stamping ink	1	1
Household cleaner	no effect	no effect
Cleaning agent	no effect	no effect
Use group according to DIN 68861	1B	1B

Assessment according to DIN 68930 Tab.1  
Other work top spaces: use group : 1C

Fulfill of requirements+

## FEATURES

- Wide range of color and pattern choices
- Stain and chemical resistance
- Non-porous structure
- Effortless fabrication and seamless installation

## APPLICATIONS

- Kitchen tops
- Vanity tops
- Wall decorations
- Working tables
- Office desks
- Commercial interiors

## SPECIFICATION DATA SHEET

Specification	Unit	Result		Test method	
		Solid	Granite		
Density	Newton/Metre	1.032	0.983	ASTM D 792	
Specific gravity	-	1.75	1.75	ASTM D 792	
Thermal expansion	m / m / °C	35.0X10 <sup>6</sup>	35.0X10 <sup>6</sup>	ASTM D 696	
Expansion	mm	<0.05	<0.05	DIN 318	
Tensile strength	kg / cm	390	390	ASTM D 638	
Flexural strength	kg / cm	790	790	ASTM D 790	
Hardness rockwell	-	90	88	ASTM D 785	
Barcol	-	63	61	ASTM D 785	
Pencil	H	5	5	KSD 6711	
Izod impact notched strength (ball drop)	kgXcm / cm	1.032	0.983	ASTM D 792	
	6mm	-	1.75	ASTM D 792	
	12mm	mm	<1,400	<1,400 DIN EN 438, part 2, pt.12, '92	
(with impact test apparatus)	12mm	N	25	25 DIN EN 438, part 2, pt.11, '92	
Water absorption	6mm	%, 23°C	0.05	0.05	ASTM D 570
	12mm	24hrs	0.04	0.05	ASTM D 570
Slip resistance	Wet Pendulum	Slip Resistance Value	10	AS 4586 Appendix A	
		Classification	P0		
	Oil-wet inclining platform	Acceptance Angle Classification	3°	AS 4586 Appendix D	
		Classification	None		
Heat distortion temperature	°C	95-105	95-105	-	
Dry heat (pan bottom)	°C	≤100	≤100	DIN 68 861, part 7, 04-'85	
Wet heat (pan bottom)	°C	7A	7A	DIN 68 861, part 8, 04-'85	
Cigarette burn resistance	-	6C	6B	DIN 68 861, part 6, 04-'85	
Chemical impact	-	1B	1B	DIN 68 861, part 1, 12-'81	
Scratch resistance	-	4D	4B	DIN 68 861, part 4, 11-'81	
Stain recovery	%	98	98	KSF 4810-1986	
Electrostatic	>1X10 <sup>12</sup> Ω	insulating	insulating	DIN IEC 1340-4-1, 04-'92	
Weather resistance	ΔE	no change	no change	ASTM D 1499	
	(1,000hrs)	-	-	-	
Xenon (light resistance)	-	better than 6	better than 6	DIN 53 387, 04-'89	
Hygienic	-	suitable	suitable	DIN 53 387, 04-'89	
Food contact	-	suitable	suitable	LMBG §31 Food contact safety	
Fire resistance	Group No.	3	3	AS 5637.1	

## CERTIFICATIONS



GREENGUARD certification identifies interior products and materials that have low chemical emissions, improving the quality of the air in which the products are used. The GREENGUARD Gold standard includes health based criteria for additional chemicals and also requires lower total VOC emissions levels to ensure that products are acceptable for use in environments such as schools and healthcare facilities.



NSF (National Sanitation Foundation) certification identifies food, water and consumer products that meet strict standards for public health protection.

## WARRANTY & SERVICES

All HI-MACS® products are carefully manufactured to ISO 9001 quality standards and backed by a full technical service support team. A limited 15 year installed warranty applies to all HI-MACS structures provided they have been fabricated and installed by an authorized fabricator and correctly maintained according to recommended guidelines