

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 | 0.52 | kg | 0.49 | kg |
| | 12mm | 2.07 | kg | 0.49 | kg |
| | 20mm | 3.32 | 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 |
| Natrium 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 |
| Benzine | 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 ⁶ | 35.0X10 ⁶ | 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 | |
| | Oil-wet inclining platform | Classification | P0 | | |
| | | Acceptance Angle | 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 | >1X1012Ω | 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