LG HI-MACS® enhances the elegance and harmony of your living environment with natural beauty and the synthesis of design and creativity.

FEATURES

- 1. Wide spectrum of color and pattern choices.
- 2. Stain and chemical resistance.
- 3. Non-porous surfaces (does not support fungal or bacterial growth).
- 4. Effortless fabrication and seamless installation.

APPLICATIONS

Kitchen Tops, Vanity Tops, Wall Decorations, Laboratory Tables, Working Tables, Office Desks, Commercial Interiors. SPECIFICATIONS (Unit: Inches)

Thickness	Width	Length
1/4"	30" *36"	98", *120" 98"
*3/8"	30" *36"	*120", *145" *120"
1/2"	30" *36"	*120", *145" *120", *145"

^{*3/8&}quot; thickness and 36" width products are available as special order only. Minimum order requirements apply.

Table 1. Summary of ISSFA Testing for Performance Properties
Report of results for LG HI-MACS on Arctic White (Sample #010803001-002) and Ivory Quartz (Sample #010803003-004)

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Anaylysis	Arctic White	Ivory Quartz
Consistency of Color (Same Sheet) ISSFA SST 2.1-00	Pass	Pass
Cleanability Stain Rating ISSFA SST 3.1-00	30 (17/13)	14 (7/7)
Visual Defects ISSFA SST 5.1-00	Pass	Pass
Light Resistence ISSFA SST 7/1-00	No Effect - Pass	No Effect - Pass
Boiling Water Resistance ISSFA SST 8.1-00 (referencing NEMA LD3-3.5)	No Effect - Pass	No Effect - Pass
High Temperature Resistance ISSFA SST 9.1- 00 (referencing NEMA LD3- 3.6)	No Effect - Pass*	No Effect - Pass

^{*} after cleaning with water, abrasive cleaning powder containing bleach and a Scotch-Brite® #7447 pad.

Table 2. Summary of ISSFA Testing for Engineering Properties
Report of results for LG HI-MACS on Arctic White (Sample #010803001-002) and Ivory Quartz (Sample #010803003-004)

Anaylysis	Arctic White	Ivory Quartz
Radiant Heat Resistance NEMA LD3-3.10	600+ seconds Pass	600+ seconds Pass
Linear Thermal Expansion (ASTM E 228-95)	3.81 x 10-5 mm/mm °C (2.12 x 10-5 in./in. °F) Pass	3.71 x 10-5 mm/mm °C (2.06 x 10-5 in./in. °F) Pass
Flexual Strength (PSI) (ASTM D-790-99)	78.77 Mpa (11,424 PSI) Pass	64.75 Mpa (9,391 PSI) Pass
Flexural Modulus (MPSI) (ASTM D 790-99)	9239 Mpa (1.34 MPSI) Pass	9584 Mpa (1.39 MPSI) Pass
Barcol Hardness (ASTM D 2583)	65 Pass	65 Pass
Flatness of Sheets ISSFA SST 4.1-00	Length - <0.25 mm (<0.010 in.) Positive Warp Width - 0.50 mm Pass	Length - <0.85 mm (0.033 in.) Positive Warp Width - 0.80 mm (0.031 in) P
Impact Resistance ISSFA SST 6.1-00	Pass at 1525 mm (60 in.) Thickness = 0.46450 in.	Pass at 1525 mm (60 in.) Thickness = 0.47800 in.

Table 3. Cleanability / Stain Resistance - Arctic White Report of results for LG HI-MACS on Arctic White (Sample #010803001-002) and Ivory Quartz (Sample #010803003-004)

Regent	Score: Covered / Not Covered by Watchglass	Visual Effect
Naphtha	0/0	No Effect
Ethyle Alcohol (90% v/v)	1/1	No Effect
Household Amonia	0/0	No Effect
Citric Acid (10% w/v)	0/0	No Effect
Povidone Iodine, 10%	0/0	No Effect
Urea (6% w/v)	0/0	No Effect
Hydorgen Peroxide Solution, 3%	0/0	No Effect
Household Bleach (5% ± 0.5% aqueous solution of Sodium Hypochlorite	0/0	No Effect

Fingernail Polish Remover	2/0	No Effect
Trisodium Phosphate (5% w/v)	0/0	No Effect
Vinegar	0/0	No Effect
Distilled Water	0/0	No Effect
No. 2 Pencil	1/1	No Effect
Vegetable Oil	0/0	No Effect
Isopropyl Alcohol (90% v/v)	0/0	No Effect
Lye Solution (1-2% w/v)	0/0	No Effect
Pine Oil	0/0	No Effect
Instant Coffee (1tsp instant coffee per 6oz. (170ml) of water)	1/1	No Effect
Catsup	0/0	No Effect
Prepared Yellow Mustard	1/1	No Effect
Wet Pekoe Tea Bag (6oz. (170ml) of water)	2/2	No Effect
Acetone	2/0	No Effect
Permanent Marker (contrasting colors)	2/2	No Effect
Ball Point Ink Pen (medium point-contrasting colors)	2/2	No Effect
Black Paste Shoe Polish	2/2	No Effect
Wax Crayon	1/1	No Effect
Total	17/13 = 30	

Table 4. Cleanability / Stain Resistance - Ivory Quartz Report of results for LG HI-MACS on Arctic White (Sample #010803001-002) and Ivory Quartz (Sample #010803003-004)

Regent	Score: Covered / Not Covered by Watchglass	Visual Effect
Naphtha	0/0	No Effect
Ethyle Alcohol (90% v/v)	0/0	No Effect

Household Amonia	0/0	No Effect
Citric Acid (10% w/v)	0/0	No Effect
Povidone Iodine, 10%	0/0	No Effect
Urea (6% w/v)	0/0	No Effect
Hydorgen Peroxide Solution, 3%	0/0	No Effect
Household Bleach (5% ± 0.5% aqueous solution of Sodium Hypochlorite	0/0	No Effect
Fingernail Polish Remover	0/0	No Effect
Trisodium Phosphate (5% w/v)	0/0	No Effect
Vinegar	0/0	No Effect
Distilled Water	0/0	No Effect
No. 2 Pencil	1/1	No Effect
Vegetable Oil	0/0	No Effect
Isopropyl Alcohol (90% v/v)	0/0	No Effect
Lye Solution (1-2% w/v)	0/0	No Effect
Pine Oil	0/0	No Effect
Instant Coffee (1tsp instant coffee per 6oz. (170ml) of water)	0/0	No Effect
Catsup	0/0	No Effect
Prepared Yellow Mustard	0/0	No Effect
Wet Pekoe Tea Bag (6oz. (170ml) of water)	1/1	No Effect
Acetone	0/0	No Effect
Permanent Marker (contrasting colors)	2/2	No Effect
Ball Point Ink Pen (medium point-contrasting colors)	1/1	No Effect
Black Paste Shoe Polish	1/1	No Effect
Wax Crayon	1/1	No Effect

7/7 = 14Total

Table 5. Visual Defects - ISSFA SST 5.1 Report of results for LG HI-MACS on Arctic White (Sample #010803001-002) and Ivory Quartz (Sample #010803003-004)

Sample	Arctic White	Ivory Quartz
Dirt-Show Side	1 at 0.020 (sq.mm) Pass	None, Pass
Voids-Show Side	1 at 0.025 mm (0.001in.) Pass	None, Pass
Voids-Backside mm (in.)	1 at 0.025 (0.001 in.) Pass	1 at 0.127 (0.005 in.) Pass
Light Resistence ISSFA SST 7/1-00	No Effect - Pass	No Effect - Pass

Stain Resistance/Chemical Resistance

	Classification	Results
	Water marketing pen (black), coffee, tea, whisky, milk, distilled liquor, edible oil, urine, 10% iodine fluid, etc. *	Removing with water
	Crayon, water, marking pen (red), lipstick, etc.	Removing with neutral detergents
	Oil marketing pen, eye brow pencil, etc. *	Removing with cleanser
	Cloric Acid (20%) **	No Change
	Sulfuric Acid (20%) **	No Change
	Ammonia (28%) **	No Change
	Sodium Hydroxide (40%) **	No Change
	Methyl Alcohol **	No Change
	Toluene **	No Change
	Xylene **	No Change
* Test Time: 24 hours ** Test Time: 16 hours (KSM 307)		