

Technical Comparison

Test Performed	LivingStone®	Corian®	Hi-Macs®	Staron®	Standard
Composition / Production	All 100% Acrylic Resin (Methyl Methacrylate) and Inorganic Filler / All Continuous Casting				
ISO 9001 Certification	Yes	Unknown	Yes	Yes	
ISO 14001 Certification	Yes	Unknown	Yes	Yes	
Water Absorption Coefficient (24 hrs)	0.03% (0.5" thick)	0.04% (0.5" thick)	0.04% (0.5" thick)	0.04% (0.5" thick)	ASTM D570
Hardness Test (Rockwell M Scale)	92	>85	90	96	ASTM D785
Hardness Test (Barcol Compressor)	63	56	65	65	ASTM D2583
Izod Impact Strength (ft-lbs/in of notch)	0.26	0.28	0.26	0.25	ASTM D256
Tensile Strength (psi)	6,500	6,000	5,500	6,000	ASTM D638
Tensile Modulus (psi)	1.4x10 ⁶	1.5x10 ⁶	1.35x10 ⁶	0.6x10 ⁶	ASTM D638
Ball Drop (0.5 lb. steel ball)	>125"	>125"	Unknown	>125"	NEMA LD-3
Flexural Strength (psi)	10,000	10,000	11,424	10,000	ASTM D790
Flexural Elastic Modulus (psi)	1.3x10 ⁶	1.2x10 ⁶ / 1.4x10 ⁶	1.34x10 ⁶	1.30x10 ⁶	ASTM D790
Elongation	0.73%	0.4%	Unknown	2.5%	ASTM 638
Thermal Expansion Coefficient (°C)	3.5x10 ⁻⁵	3.02x10 ⁻⁵	Unknown	2.3x10 ⁻⁵	ASTM 696
Weatherability (1,000 hrs.)	No Change	No Change	No Change	No Change	ASTM D1499
Color Stability (200 hrs.)	No Change	No Change	Unknown	No Change	NEMA LD-3
Thermal Resistance	No Change	No Change	Unknown	No Change	NEMA LD-3
Boiling Water Resistance	No Change	No Change	Unknown	No Change	NEMA LD-3
Stain Resistance	Pass Rating 41	Passing Rating 41	Passing Rating 41	Passing Rating 41	ANSI Z124
Food Zone Acceptability	Accepted/Listed	Accepted/Listed	Unknown	Accepted/Listed	NSF 51
Fungal/Bacterial Resistance	No Growth	No Growth	Unknown	No Growth	ASTM G21
Specific Gravity - Solid Colors	1.74	1.8	Unknown	1.73	
Specific Gravity - Textured Colors	1.69	1.69	Unknown	1.68	
Flammability	Class 1	Class 1	Unknown	Class 1	UBC 8-1
Flame Spread	0-25	0-25	Unknown	10	ASTM E84
Smoke Density	<25	<25	Unknown	5	ASTM E84
Radiant Heat Resistance	No Visual Effect	No Visual Effect	Unknown	No Visual Effect	
Wear and Cleanability	Pass	Pass	Pass	Unknown	ANSI Z124.3/Z124.6

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Hardness Test (Barcol Compressor)	63	56	ASTM D2583
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Tensile Strength (psi)	6,500	6,000	ASTM D638
Tensile Modulus (psi)	1.4x10 ⁶	1.5x10 ⁶	ASTM D638
Ball Drop (0.5 lb. steel ball)	>125"	>125"	NEMA LD-3
Flexural Strength (psi)	10,000	10,000	ASTM D790
Flexural Elastic Modulus (psi)	1.3x10 ⁶	1.2x10 ⁶ / 1.4x10 ⁶	ASTM D790
Elongation	0.73%	0.4%	ASTM 638
Thermal Expansion Coefficient (°C)	3.5x10 ⁻⁵	3.02x10 ⁻⁵	ASTM 696
Weatherability (1,000 hrs.)	No Change	No Change	ASTM D1499
Color Stability (200 hrs.)	No Change	No Change	NEMA LD-3
Thermal Resistance	No Change	No Change	NEMA LD-3
Boiling Water Resistance	No Change	No Change	NEMA LD-3
Stain Resistance	Pass Rating 41	Passing Rating 41	ANSI Z124
Food Zone Acceptability	Accepted/Listed	Accepted/Listed	NSF 51
Fungal/Bacterial Resistance	No Growth	No Growth	ASTM G21
Specific Gravity - Solid Colors	1.74	1.8	
Specific Gravity - Textured Colors	1.69	1.69	
Flammability	Class 1	Class 1	UBC 8-1
Flame Spread	0-25	0-25	ASTM E84
Smoke Density	<25	<25	ASTM E84
Radiant Heat Resistance	No Visual Effect	No Visual Effect	
Wear and Cleanability	Pass	Pass	ANSI Z124.3/Z124.6

Technical Comparison

Test Performed	LivingStone®	Hi-Macs®	Standard
Composition / Production	All 100% Acrylic Resin (Methyl Methacrylate) and Inorganic Filler / All Continuous Casting		
ISO 9001 Certification	Yes	Yes	
ISO 14001 Certification	Yes	Yes	
Water Absorption Coefficient (24 hrs)	0.03% (0.5" thick)	0.04% (0.5" thick)	ASTM D570
Hardness Test (Rockwell M Scale)	92	90	ASTM D785
Hardness Test (Barcol Compressor)	63	65	ASTM D2583
Izod Impact Strength (ft-lbs/in of notch)	0.26	0.26	ASTM D256
Tensile Strength (psi)	6,500	5,500	ASTM D638
Tensile Modulus (psi)	1.4x10 ⁶	1.35x10 ⁶	ASTM D638
Ball Drop (0.5 lb. steel ball)	>125"	Unknown	NEMA LD-3
Flexural Strength (psi)	10,000	11,424	ASTM D790
Flexural Elastic Modulus (psi)	1.3x10 ⁶	1.34x10 ⁶	ASTM D790
Elongation	0.73%	Unknown	ASTM 638
Thermal Expansion Coefficient (°C)	3.5x10 ⁻⁵	Unknown	ASTM 696
Weatherability (1,000 hrs.)	No Change	No Change	ASTM D1499
Color Stability (200 hrs.)	No Change	Unknown	NEMA LD-3
Thermal Resistance	No Change	Unknown	NEMA LD-3
Boiling Water Resistance	No Change	Unknown	NEMA LD-3
Stain Resistance	Pass Rating 41	Passing Rating 41	ANSI Z124
Food Zone Acceptability	Accepted/Listed	Unknown	NSF 51
Fungal/Bacterial Resistance	No Growth	Unknown	ASTM G21
Specific Gravity - Solid Colors	1.74	Unknown	
Specific Gravity - Textured Colors	1.69	Unknown	
Flammability	Class 1	Unknown	UBC 8-1
Flame Spread	0-25	Unknown	ASTM E84
Smoke Density	<25	Unknown	ASTM E84
Radiant Heat Resistance	No Visual Effect	Unknown	
Wear and Cleanability	Pass	Pass	ANSI Z124.3/Z124.6

Technical Comparison

Test Performed	LivingStone®	Staron®	Standard
Composition / Production	All 100% Acrylic Resin (Methyl Methacrylate) and Inorganic Filler / All Continuous Casting		
ISO 9001 Certification	Yes	Yes	
ISO 14001 Certification	Yes	Yes	
Water Absorption Coefficient (24 hrs)	0.03% (0.5" thick)	0.04% (0.5" thick)	ASTM D570
Hardness Test (Rockwell M Scale)	92	96	ASTM D785
Hardness Test (Barcol Compressor)	63	65	ASTM D2583
Izod Impact Strength (ft-lbs/in of notch)	0.26	0.25	ASTM D256
Tensile Strength (psi)	6,500	6,000	ASTM D638
Tensile Modulus (psi)	1.4x10 ⁶	0.6x10 ⁶	ASTM D638
Ball Drop (0.5 lb. steel ball)	>125"	.125"	NEMA LD-3
Flexural Strength (psi)	10,000	10,000	ASTM D790
Flexural Elastic Modulus (psi)	1.3x10 ⁶	1.30x10 ⁶	ASTM D790
Elongation	0.73%	2.5%	ASTM 638
Thermal Expansion Coefficient (°C)	3.5x10 ⁻⁵	2.3x10 ⁻⁵	ASTM 696
Weatherability (1,000 hrs.)	No Change	No Change	ASTM D1499
Color Stability (200 hrs.)	No Change	No Change	NEMA LD-3
Thermal Resistance	No Change	No Change	NEMA LD-3
Boiling Water Resistance	No Change	No Change	NEMA LD-3
Stain Resistance	Pass Rating 41	Passing Rating 41	ANSI Z124
Food Zone Acceptability	Accepted/Listed	Accepted/Listed	NSF 51
Fungal/Bacterial Resistance	No Growth	No Growth	ASTM G21
Specific Gravity - Solid Colors	1.74	1.73	
Specific Gravity - Textured Colors	1.69	1.68	
Flammability	Class 1	Class 1	UBC 8-1
Flame Spread	0-25	10	ASTM E84
Smoke Density	<25	5	ASTM E84
Radiant Heat Resistance	No Visual Effect	No Visual Effect	
Wear and Cleanability	Pass	Unknown	ANSI Z124.3/Z124.6