

R-Cast® mirage® & palette®



Rodeo Grill • Bernalillo, New Mexico, USA
R-Cast® Mirage®, Rainbow

Applications

- Decorative paneling
- Partitions
- Reception areas
- Door & cabinet inserts
- Artwork
- Signage
- Lighting applications
- Furniture
- and more...

Attributes

- Excellent UV properties
- Acrylic material is half the weight of glass
- Acrylic material has high impact resistance - 17x greater than glass and 4x greater than concrete
- Perfect for backlit applications
- Versatile applications
- Easily fabricated to suit your needs

Materials

- R-Cast® Acrylic: clear, opaque white, translucent white
- R-Cast® Dura: opaque white

Sizes R-Cast® Acrylic

48" x 96" (1.22m x 2.44m)

48" x 120" (1.22m x 3.05m)

Custom sheet sizes available upon request

Shrinkage of acrylic sheet is normal and varies by thickness.

Sizes R-Cast® Dura

48" x 96" (1.22m x 2.44m)

Thicknesses

R-Cast® Acrylic **0.125" • 0.25" • 0.375" • 0.5" • 0.75" • 1.0"**
3.2mm • 6.4mm • 9.5mm • 12.7mm • 19mm • 25.4mm

R-Cast® Dura **0.25" • 0.5"**
6.4mm • 12.7mm

Custom gauges available upon request.

Surface Finishes (acrylic only)

- Gloss finish
- Matte finish

Edge Finishes

- Saw cut
- Polished edge

Backing (acrylic only)

- Clear
- Translucent white
- Opaque white

Others available by special order.

R-Cast® mirage® & palette®



Casper College • Casper, Wyoming, USA
R-Cast® Mirage®, Custom

R-Cast® Mirage® Patterns

- Library of images available
- Custom images upon request. Submit 300 dpi to scale images.
White printing not available.
Additional hourly charge for custom graphics.*

R-Cast® Palette® Colors

- 120 colors available in library
- Custom colors available by special order.
White printing not available.*

Fabrication Options Available

- Forming
- Bonding
- Drilling
- CNC Machining
- Cutting

Warranty

2 years

Care & Cleaning

To polish out scratches and restore original lustre on non-imaged face, we recommend our R-Cast® Care Kit to maintain your R-Cast® Mirage® & Palette® panels.
Standard soap and water is also acceptable.
Avoid using solvent-based cleaners on R-Cast® Mirage® & Palette®.
Please contact us with any questions regarding cleaners.

R-Cast® mirage® & palette®

R-Cast® Mirage® Image Library

AQUA



Pool Ripples Water Wall

CONTOUR



Jingle Midnight Net Rainbow Random Ribbon Sherbet Stitch Tiger Stripes

NATURE



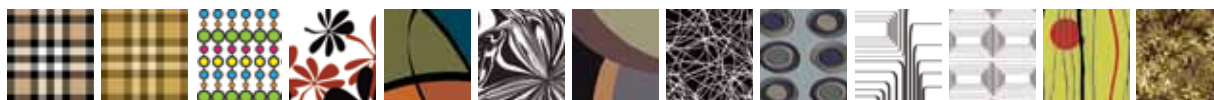
Aged Bamboo Auburn V Auburn Vertical Blonde V Blonde Vertical Bamboo Small Bamboo Large Fall Harvest Green Leaf Leaflet Moss Red Sticks

ORNAMENTAL



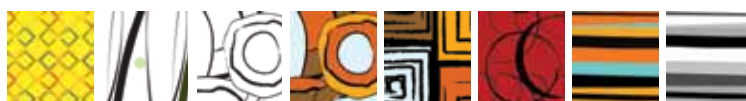
Bonsai Moon Dwelling Return Screen Veil Wallflower Wallflower White

RETRO



1972 1976 Chimes Daisy Evolution Funky Geo Shapes Infinity Olive Process Spellbound Wash Zig-Zag

TRIBAL



Diamond Garden Foliage Halo B&W Halo Squares Moonbeam Sunset Sunset B&W

STONE



Bliss Fire Green Onyx Honey Onyx Radical Rain Red Sand Sear Thunder

R-Cast® mirage® & palette®

R-Cast® Palette® Color Library

Basic												
												
Bold												
												
Bright												
												
Earth												
												
Pastel												
												
Soft												
												

R-Cast® mirage® & palette®

R-Cast® Acrylic Physical Properties

Property

ASTM Method

US Customary Units

Average Value

Metric Units

Average Value

MECHANICAL

Tensile Strength	ASTM-D638	psi	10800	Kg/cm ²	759
Tensile Modulus	ASTM-D638	psi	450000	Kg/cm ²	31 x 10 ³
Tensile Elongation	ASTM-D638	%	4.0	-	-
Flexural Strength	ASTM-D790	psi	16000	Kg/cm ²	1125
Compression Strength	ASTM-D695	psi	17500	Kg/cm ²	1230
Shear Strength	ASTM-D732	psi	10000	Kg/cm ²	703
IZOD Impact Strength, notched @ 1/8"	ASTM-D256	ftlbs/inch	0.414	J/m	22.1
Rockwell Hardness (M Scale)	ASTM-D785	-	103	-	-
Deformation Under Load @ 4,000 psi @ 73°F	ASTM-D621	%	0.85	-	-

OPTICAL

Light Transmittance (0.1" nominal thickness)	ASTM-D1003	%	92	-	-
Haze	-	%	< 1	-	-
Refractive Index @ 77°F	ASTM-D542	-	1.49	-	-

THERMAL

Heat Deflection Temperature	ASTM-D648	°F	226	°C	108
Coefficient of Expansion @ 60°F	ASTM-D696	in/in/°F	4.0 x 10 ⁻⁵	mm/mm/°C	7.2x10 ⁻⁵

MISCELLANEOUS

Water Absorption, Equilibrium, 24 hrs @ 73°F	ASTM-D570	%	0.2	-	-
Specific Gravity	ASTM-D792	-	1.19	-	-

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R-Cast® Dura Opaque Physical Properties

Property

ASTM Method

US Customary Units

Average Value

Metric Units

Average Value

MECHANICAL

Tensile Strength	ASTM-D638	psi	3400	Kg/cm ²	239
Tensile Modulus	ASTM-D638	psi	1.31 x 10 ⁶	Kg/cm ²	9.21 x 10 ⁴
Flexural Strength	ASTM-D790	psi	6900	Kg/cm ²	485
Flexural Modulus	ASTM-D790	psi	1.18 x 10 ⁶	Kg/cm ²	8.44 x 10 ⁴
IZOD Impact Strength, notched @ 1/8"	ASTM-D256	ft-lbs/inch	0.28	J/m	15
Rockwell Hardness (M Scale)	ASTM-D785	-	>87	-	-

OPTICAL

Light Resistance (Xenon Arc)	NEMA LD3-2000	%	No Effect	-	-
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THERMAL

Coefficient of Expansion @ 60°F	ASTM-D696	in/in/°F	2.0 x 10 ⁻⁵	mm/mm/°C	3.02 x 10 ⁻⁵
Flammability	ASTM-E84 NFPA- 255 UL-723		Class A & Class I		
Flame Spread Index	-		20		
Smoke Development Index	-		0		

MISCELLANEOUS

Water Absorption, Equilibrium, 24 hrs @ 73°F (1/2")	ASTM-D570	%	0.05	-	-
Specific Gravity	ASTM-D792	-	1.7	-	-

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Manufacturing

R-Cast® Mirage® & Palette® are resin-based products manufactured to strict internationally accepted structural standards.

Short Term Loading

Impact, live, and seismic loading conditions are short term and infrequent conditions. All R-Cast® Mirage® & Palette® panels can be designed to handle these conditions.

Safety Glazing, R-Cast® (Acrylic only)

Meets ANSI Z 97.1, for safety glazing material used in buildings.

Approved for safety glazing according to model building codes.

Suitable for use in Consumer Products Safety Commission, Safety Standard for Architectural Glazing Material under 16 CFR 1201, Categories I & II.



SpringHill Suites • Grand Junction, Colorado, USA
R-Cast® Palette®, Custom Color

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