

ORACAL® Series 851 Premium Cast

Unrivaled Durability, Conformability and Dimensional Stability

The Possibilities Are Limitless

ORACAL® Series 851 Premium Cast was specially developed for use with computer-aided sign making (CAS) equipment for the widest array of applications, especially those with high durability and conformability requirements. Ideal for high quality vehicle and fleet graphics, long-term permanent signage, marine graphics, banners, building fascia, general signage, window graphics or any other extreme application.

Fabrication Made Easier

ORACAL® Series 851 Premium Cast's thin face stock, combined with its high-tech liner adhesion properties, makes cutting and weeding effortless, with consistent results every time. Plus, the blue-tint release liner used on white gives high contrast for even easier weeding.

ORACAL® Series 851 Premium Cast Features and Benefits

- ✓ 97 radiant colors created with a custom computerized color-matching system
 - = A huge selection of colors that maintain color consistency throughout the entire roll as well as roll-to-roll
 - = Greater fade resistance
- ✓ 2-mil film provides outstanding elongation properties delivers superior conformability
 - = Ideal for applications over uneven or curved surfaces, rivets and corrugations
- ✓ Built to exacting standards for optimal performance
 - = Reliable thickness throughout the roll means you can set it on the plotter and walk away
- ✓ 100% splice-free rolls, every time
 - = No production downtime
- ✓ Unrivaled minimum life rating: 10 years for black & white, 8 years for colors
 - = Optimal for long-term conditions such as fleet and vehicle graphics, commercial signage and high-duty graphics
- ✓ Unsurpassed dimensional stability under extreme outdoor conditions
 - = Minimal shrinkage guarantees long life of graphics
- ✓ Solvent-based acrylic adhesive system
 - = Allows adhesion to a wider variety of surfaces
- ✓ Compatible on digital thermal imaging equipment
 - = Unlimited creative possibilities
- ✓ Revolutionary batch ID system
 - = Provides outstanding quality control

ORACAL® 851 #	ORACAL® Series 851	3M™ SCOTCHCAL™ Series 220/225	AVERY GRAPHICS™ A9 Series	CALON® Series 2100/2200/2270	3M™ SCOTCHCAL™ 7725 Opaque
201	Crocus Yellow	(Primrose Yellow)	-NA-	-NA-	-NA-
216	Traffic Yellow	(Bright Yellow)	(Canary Yellow)	67 Primrose Yellow	(Bright Yellow)
209	Maize Yellow	Bright Yellow	Canary Yellow	(67 Primrose Yellow)	Bright Yellow
219	Yolk Yellow	(Sunflower)	Medium Yellow	06 Yellow	(Sunflower)
020	Golden Yellow	Sunflower	-NA-	-NA-	Sunflower
204	Melon Yellow	(Sunflower)	-NA-	-NA-	(Sunflower)
208	Post Office Yellow	-NA-	-NA-	-NA-	-NA-
019	Signal Yellow	-NA-	-NA-	-NA-	-NA-
817	Almond	Egg Shell	Almond	84 Eggshell	-NA-
023	Cream	-NA-	-NA-	-NA-	-NA-
804	Beige Brown	-NA-	-NA-	-NA-	-NA-
818	Saffron	-NA-	-NA-	48 Camel Beige	-NA-
816	Papyrus	Beige	Dark Beige	Beige	Beige
341	Coral	Coral	-NA-	78 Coral	-NA-
035	Pastel Orange	-NA-	Orange	83 Bright Orange	(Light Orange)
332	Deep Orange	(Bright Orange)	(Bright Orange)	-NA-	(Bright Orange)
333	Pure Orange	Bright Orange	-NA-	-NA-	Bright Orange
335	Mars Red	Intense Orange	Tangerine	96 Tangerine	-NA-
347	Red Coral	-NA-	Red	-NA-	-NA-
326	Signal Red	Warm Red	Real Red	73 Poppy	(Tomato Red)
032	Light Red		(Real Red)	(223 Peacock Red)	
324	Blood Red	Tomato Red	-NA-	223 Peacock Red	Tomato Red
359	Tomato		(Tomato Red)	(Geranium)	
031	Red	(Geranium)	Fire Red	Geranium	(Geranium)
028	Cardinal Red	(Geranium)	-NA-	Tomato Red	(Geranium)
305	Geranium Red	Geranium	Fire Red	(Geranium)	Geranium
334	Fire Brigade Red	(Geranium)	-NA-	(Geranium)	(Geranium)
348	Scarlet Red	-NA-	Apple Red	Bright Cardinal Red	-NA-
030	Dark Red	Cranberry	Spectra Red	Red	(Deep Red)
026	Purple Red	Dark Burgundy	Burgundy	(Burgundy)	(Burgundy)
340	Chestnut	-NA-	Burgundy Maroon	-NA-	-NA-
044	Magenta	Magenta	-NA-	Magenta	Magenta
402	Cyclamen	Process Magenta	Blossom	-NA-	Process Magenta

ORACAL® 851 #	ORACAL® Series 851	3M™ SCOTCHCAL™ Series 220/225	AVERY GRAPHICS™ A8 Series	CALON® Series 2100/2200/2270	3M™ SCOTCHCAL™ 7725 Opaque
415	Summer Plum	-NA-	-NA-	-NA-	-NA-
409	Pale Lilac	Violet	-NA-	Violet	Violet
043	Lavender	-NA-	Lavender	Lavender	-NA-
407	Deep Violet	(Burgundy)	-NA-	-NA-	-NA-
048	Bordeaux	Wedgewood Blue	-NA-	-NA-	(Burgundy)
549	Dove Blue	(Periwinkle)	-NA-	Wedgewood Blue	Wedgewood Blue
555	Glacier Blue	-NA-	Copenhagen	(Periwinkle)	-NA-
056	Ice Blue	Sky Blue	-NA-	-NA-	(Peacock Blue)
053	Light Blue	Olympic Blue	-NA-	(Olympic Blue)	-NA-
547	Fjord Blue	-NA-	Olympic Blue	Olympic Blue	Olympic Blue
052	Azure Blue	Intense Blue	Medium Blue	-NA-	-NA-
545	Ocean Blue	-NA-	Intense Blue	Intense Blue	Intense Blue
546	Velvet Blue	Vivid Blue	-NA-	-NA-	-NA-
509	Sea Blue	-NA-	-NA-	05 Blue	Vivid Blue
544	Indigo Blue	(Vivid Blue)	Interstate Blue	(Medium Blue)	-NA-
067	Blue	-NA-	Vivid Blue	-NA-	(Vivid Blue)
086	Brilliant Blue	(Sapphire Blue)	-NA-	-NA-	-NA-
536	Middle Blue	Sapphire Blue	(Sapphire Blue)	(Sapphire Blue)	(Sapphire Blue)
049	King Blue	(Sapphire Blue)	(Sapphire Blue)	Sapphire Blue	Sapphire Blue
511	Night Blue	(Sapphire Blue)	Sapphire Blue	(Sapphire Blue)	(Sapphire Blue)
065	Cobalt Blue	Royal Blue	-NA-	(Viking Blue)	(Sapphire Blue)
537	Deep Blue	Dark Blue	-NA-	(Light Navy)	-NA-
050	Dark Blue	-NA-	-NA-	-NA-	-NA-
570	Moonlight Blue	-NA-	Dark Blue	-NA-	-NA-
571	Mystic Blue	(Light Navy)	Dark Navy Blue	-NA-	-NA-
518	Steel Blue	-NA-	-NA-	(Light Navy)	(Light Navy)
564	Light Navy	Aqua	Light Navy	(Light Navy)	-NA-
501	Mint Blue	(Dark Aqua)	Seafoam Blue	(Aqua Green)	Aqua
502	Blue Turquoise	Teal	Real Teal	Aqua Blue	(Dark Aqua)
503	Water Blue	-NA-	Teal	Teal	Teal
553	Lagoon	Bermuda Blue	Aquamarine	-NA-	-NA-
628	Sea Green	-NA-	-NA-	(Dark Bahama)	Bermuda Blue
630	Blue Green	-NA-	Nautical Blue	-NA-	-NA-

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601	Lime Green	-NA-	(Vibrant Green)	Kiwi	-NA-
602	Grass Green	(Apple Green)	Apple Green	Apple Green	(Apple Green)
062	Light Green	-NA-	-NA-	-NA-	-NA-
619	Traffic Green	Kelly Green	Kelly Green	Kelly Green	Kelly Green
603	Mint Green	-NA-	-NA-	(Kelly Green)	-NA-
604	Cactus Green	(Bright Green)	-NA-	(Medium Green)	(Bright Green)
612	Police Green	Bright Green	(Bright Green)	Medium Green	Bright Green
078	Leaf Green	Cactus Green	-NA-	-NA-	-NA-
625	Moss Green	Dark Green	Forest Green	Dark Green	Dark Green
635	Forest Green	-NA-	(Deep Green)	-NA-	-NA-
060	Dark Green	(Dark Green)	(Deep Green)	(Dark Green)	(Dark Green)
622	Fir Tree Green	Bottle Green	Dark Green	Bottle Green	Bottle Green
820	Golden Brown	-NA-	Imitation Gold	Imitation Gold	Harvest Gold
811	Sahara Beige	(Tan)	Buckskin	-NA-	(Tan)
812	Terracotta	Terracotta	Terracotta	Terracotta	Terracotta
810	Cocoa Brown	-NA-	(Brown)	Brown	-NA-
079	Red Brown	(Russet Brown)	-NA-	-NA-	(Russet Brown)
080	Brown	Deep Mahogany Brown	Brown	-NA-	Deep Mahogany Brown
070	Black	Black	Black	Black	Black
010	White	White	White	White	White
109	Hull White	-NA-	-NA-	-NA-	-NA-
711	Stone Grey	-NA-	Palm Oyster	Palm Oyster Grey	-NA-
724	Ice Grey	Medium Grey	Medium Gray	(Dove Gray)	Medium Grey
074	Middle Grey	-NA-	-NA-	-NA-	-NA-
076	Telegrey	-NA-	-NA-	Graphite	-NA-
721	Slate Grey	Traffic Grey	-NA-	-NA-	-NA-
071	Grey	-NA-	-NA-	Medium Grey	-NA-
730	Simple Grey	-NA-	Slate Gray	-NA-	-NA-
713	Iron Grey	(Dark Grey)	Medium Marine Gray	-NA-	(Dark Grey)
073	Dark Grey	Dark Grey	-NA-	Dark Grey	Dark Grey
091	Gold (metallic)	Gold	-NA-	(Gold Metallic)	(Satin Gold)

This cross reference guide is provided only as a suggested guide, and is based only on published colors known to exist at the time of printing. Oracal assumes no liability for non-oracal products and colors. Customers are responsible for their own assessment prior to selecting color for their specific purpose.

ORACAL® Series 851 Premium Cast Metallic

Superior Conformability. Unrivaled Durability.

Bring Your Graphics to Life

ORACAL® Series 851 Premium Cast Metallic were specially developed to create eye-catching lettering, marking and decorative elements that meet the most extreme performance requirements. With its superior conformability over rivets and corrugations and unsurpassed dimensional stability, this film is ideal for premium vehicle restyling and fleet advertising applications.

ORACAL® Series 851 Premium Cast Metallics Features and Benefits

- ✓ 20 high-gloss metallic colors created with an innovative customized, computerized color matching system
 - = An expanded line of glittering metallic colors chosen for their popularity and visual brilliance
 - = A wide selection of colors that maintain color consistency throughout the entire roll as well as roll-to-roll
 - = Greater fade resistance
- ✓ 2-mil film provides outstanding elongation properties and superior conformability
 - = Ideal for applications over uneven or curved surfaces, rivets and corrugations
- ✓ Built to exacting standards for optimal performance
 - = Reliable thickness throughout the roll means you can set it on the plotter and walk away
- ✓ 100% splice-free rolls, every time
 - = No production downtime
- ✓ Up to 7 years of outdoor durability
 - = Optimal for long-term applications such as fleet and vehicle graphics, commercial signage and high-duty graphics
- ✓ Unsurpassed dimensional stability under extreme outdoor conditions
 - = Minimal shrinkage guarantees long life of graphics
- ✓ Solvent-based acrylic adhesive system
 - = Allows adhesion to a wider variety of surfaces
- ✓ Superb weedability
 - = Increased productivity
- ✓ Revolutionary batch ID system
 - = Provides outstanding quality control
- ✓ Compatible with computer-aided sign making (CAS) and thermal imaging equipment
 - = Unlimited creative possibilities



ENGINEERED to *PERFORM BETTER.*™

ORACAL® Series 851 Premium Cast Metallics

Description

Cast PVC film with outstanding dimensional stability and cutting and application characteristics. Available in 19 high-gloss colors.

Release Paper

84# silicone-coated paper with special release characteristics that provide excellent weeding and release values.

Adhesive

Solvent polyacrylate, permanent

Applications

Designed for creating long-term lettering, marking and decorative elements with high visual impact. Excellent conformability over rivets and corrugations. Suitable for high-quality vehicle and public transportation system advertising. High-gloss finish is thermal-transfer compatible (with resin ribbons).

Technical Data

Thickness (without protective paper and adhesive)	2 mil
Dimensional Stability	Adhered to steel, no measurable shrinkage in cross direction; in length, < .004"
Temperature Resistance	Adhered to aluminum, -58°F to +230°F, no variation
Adhesive Power (FINAT TM-1, after 24 h, average)	Adhered to stainless steel: 4.1 lb/in ²
Resistance to Cleaning Agents	After 72h adhered to aluminum at room temperature, short-term resistant to most oils and greases, aliphatic solvents, weak acids, salts and alkalis
Tensile Strength (DIN EN ISO 527) Along Across	Min. 19 MPa Min. 19 MPa
Elongation at Break (DIN EN ISO 527) Along Across	Min. 120% Min. 120%
Seawaterability (DIN 50 021)	Adhered to aluminum, no variation after 100h/73°F
Shelf Life (68°F/50% relative humidity)	2 years
Minimum Application Temperature	46°F
Available Lengths Available Widths (inches)	10-yard and 50-yard rolls 24, 48, 15 & 30 punched
Minimum Life Expectancy (based on accepted application procedures on vertical surfaces)	3 years – Brass (#922), Pale Gold (#925), Pyrite (#926) 5 years – Champagne (#924) 6 years – Silver Grey (#090), Anthracite (#093), Gold (#091) 7 years – All other colors

Attention: Surfaces to which the material will be applied must be cleaned thoroughly of dust, grease or any contaminants. Freshly lacquered or painted surfaces should be allowed to stand for at least three weeks after complete curing. The compatibility of selected lacquers and paints should be tested by the end-user prior to use.

The statements in this information sheet are based upon our knowledge and practical experience. This data is intended only as a source of information and is given without any guarantee and does not constitute a warranty. Due to the wide variety of possible uses and applications, customers should independently determine the suitability of this material for their specific purpose, prior to use.



ORACAL® Series 851 Premium Cast

Description

Cast PVC film with outstanding dimensional stability and cutting and application characteristics. Available in 97 high-gloss colors, plus transparent, matte white and matte black.

Release Paper

84# PE-coated silicone paper with special release characteristics that provide excellent weeding and release values. Customized blue silicone paper liner for white provide superior contrast for cutting and weeding.

Adhesive

Solvent polyacrylate, permanent

Applications

Designed for creating long-term lettering, marking and decorative elements with high visual impact. Excellent conformability over rivets and corrugations. Suitable for high-quality vehicle and public transportation system advertising. High-gloss finish is thermal-transfer compatible (with resin ribbons).

Technical Data

Thickness (without protective paper and adhesive)	2 mil
Dimensional Stability	Adhered to steel, no measurable shrinkage in cross direction; in length, < .004"
Temperature Resistance	Adhered to aluminum, -58°F to +230°F, no variation
Adhesive Power (FINAT TM-1, after 24 h, average)	Adhered to stainless steel: 4.1 lb/in ²
Resistance to Cleaning Agents	After 72h adhered to aluminum at room temperature, resistant to most oils and greases, aliphatic solvents, weak acids and alkalis
Tensile Strength (DIN EN ISO 527) Along Across	Min. 19 MPa Min. 19 MPa
Elongation at Break (DIN EN ISO 527) Along Across	Min. 120% Min. 120%
Seawaterability (DIN 50 021)	Adhered to aluminum, no variation after 100h/73°F
Shelf Life (68°F/50% relative humidity)	2 years
Minimum Application Temperature	46°F
Available Lengths Available Widths (inches)	10-yard and 50-yard rolls 24, 36 (#000 transparent, #010 white only), 48 15 punched, 30 punched
Minimum Life Expectancy (based on accepted application procedures on vertical surfaces)	10 years – black/white 8 years – colors/transparent

Attention

Surfaces to which the material will be applied must be cleaned thoroughly of dust, grease or any contaminants. Freshly lacquered or painted surfaces should be allowed to stand for at least three weeks after complete curing. The compatibility of selected lacquers and paints should be tested by the end-user prior to use.

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