

ORACAL® Series 651 Intermediate Film

The Industry Standard in High-Performance Calendered Film

The Possibilities Are Limitless

ORACAL® Series 651 Intermediate Film is a 2.5-mil, 5-year intermediate calendered PVC film that, due to its special release characteristics, is ideal for computer-aided sign making (CAS) equipment. Series 651 Film is a universal tool for sign professionals around the world, offering thermal print transfer compatibility and formulated for a variety of applications from vehicles to outdoor banners to medium-term signage.

It May Feel Different to You

ORACAL® Series 651 Intermediate Film is denser than most films and may feel less supple. The higher density, however, results in better performance in areas such as opacity, conformity and decreased field shrinkage.

Watch It Weed

ORACAL® Series 651 Intermediate Film contains a specially manufactured high-adhesion liner, resulting in the best weedability on the market, and less slippage while cutting. The blue-tint release liner used on white gives high contrast for even easier weeding.

ORACAL® Series 651 Intermediate Film Features and Benefits

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| ✓ 2. 5-mil thickness | = Thinnest intermediate film available means superior conformability |
| ✓ Most opaque intermediate film in the market | = No bleed-through or shade disparity |
| ✓ 100% splice-free rolls, every time | = No production downtime |
| ✓ Lowest shrinkage of any intermediate film | = Guarantees long life |
| ✓ 60 vivid colors | = A large selection of colors that maintain color consistency throughout the entire roll as well as roll-to-roll |
| ✓ Ultra-gloss, high-performance finish | = High-end results |
| ✓ Quality certified ISO 9001 | = Unmatched consistency |
| ✓ Revolutionary batch ID system | = Provides outstanding quality control |
| ✓ Compatible on digital thermal imaging equipment | = Unlimited creative possibilities |
| ✓ Customized blue liner on gloss white and matte white | = Provides unparalleled contrast for even easier cutting and weeding |
| ✓ Solvent-based acrylic adhesive system | = Allows adhesion to a wider variety of surfaces |

ORACAL® Series 651 Intermediate Cal

Description

High gloss, intermediate-performance PVC film manufactured using a proprietary formulation that ensures optimized stability and resistance to UV degradation. Available in 60 brilliant colors.

Release Paper

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

Adhesive

Solvent polyacrylate, permanent

Applications

Ideal for medium-term outdoor applications. Gloss finish is thermal-transfer compatible.

Technical Data

Thickness (without protective paper and adhesive)	2.5 mil
Dimensional Stability	Adhered to steel, no measurable shrinkage in cross direction; in length, < .016"
Temperature Resistance	Adhered to aluminum, -40°F to +176°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, 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. 130% Min. 150%
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 20, 24, 48 36 (#000 transparent, #010 white, #070 black only 50-yard roll ONLY), 60 (#010 white 50-yard roll ONLY) 15 punched, 30 punched
Minimum Life Expectancy (based on accepted application procedures on vertical surfaces)	6 years 4 years – metallic

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.

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