

ORACAL® Series 8300 Transparent Cal

Long-Lasting Durability. Dramatic Results.

Let the Light Shine Through

Create a stunning stained glass effect with this glossy 3-mil film. Ideal for backlit signage and window graphic applications, this 5-year film is available in 30 luminous colors that can be superimposed to create an infinite color palette. Plus, thermal-print compatible Series 8300 features a solvent-based adhesive that's appropriate for both wet and dry applications.

ORACAL® Series 8300 Transparent Cal Features and Benefits

- | | |
|--|--|
| ✓ 5-year outdoor durability | = Ideal for long-term outdoor use |
| ✓ 30 high-gloss colors | = Wide selection of transparent colors that can be layered for virtually unlimited creative options |
| ✓ 84# Silicone Coated Paper | = Provides excellent weeding and release values |
| ✓ Consistent and homogeneous pigment mix | = Better light diffusion
= Eliminates hot spots |
| ✓ 100% splice-free rolls, every time | = No production downtime |
| ✓ Quality certified ISO 9001 | = Unmatched consistency
= Colors remain consistent throughout the entire roll as well as roll-to-roll |
| ✓ Revolutionary batch ID system | = Provides outstanding quality control |
| ✓ Compatible with thermal transfer imaging equipment | = Unlimited creative possibilities |
| ✓ Solvent-based acrylic adhesive system | = Allows adhesion to a wider variety of surfaces |

ORACAL® Series 8300 Transparent Cal

Description

Special transparent colored PVC film with UV stabilizers. Available in 30 radiant colors with gloss finish.

Release Paper

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

Adhesive

Solvent polyacrylate, permanent

Applications

Designed for permanent markings for internally illuminated signs and window graphics. Suitable for both wet and dry applications. Thermal-transfer compatible.

Technical Data

Thickness (without protective paper and adhesive)	3 mil
Dimensional Stability	Adhered to steel, no measurable shrinkage in cross direction; in length, < .016"
Temperature Resistance	Adhered to acrylic, -40°F to +176°F, no variation
Adhesive Power (FINAT TM-1, after 24 h, average)	Adhered to glass: 4.1 lb/in ² Adhered to acrylic: 3.7 lb/in ²
Resistance to Cleaning Agents	Adhered to acrylic, after 8 hours (in 0.5% household cleaning agents) at room temperature and 149°F, no variation.
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)	N/A
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 punched, 30 punched
Minimum Life Expectancy (based on accepted application procedures on vertical surfaces)	5 years

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.

