

ORACAL® 8860

Translucent Light Diffusion Premium Cast

Technical Datasheet
12/24
Page 1 of 2

Description

ORACAL 8860 is a premium cast film designed for effective light diffusion in illuminated signage. With a white, matte finish and a thickness of 2 mil, this film ensures smooth and even light distribution.

Also, consider these additional ORAFOL Graphic Solutions when constructing illuminated signage and graphics:

- [ORACAL 8870 Blockout Premium Cast](#)
- [ORACAL 8830 Diffuser Premium Cast](#)
- [ORACAL 8500 Translucent High-Performance Cal](#)
- [ORACAL 8800 Translucent High-Performance Cal](#)
- [ORAJET 3850 Translucent High-Performance Cal Digital Print Media](#)
- [ORAJET 3951 Transparent Cast Digital Print Media](#)
- [ORAJET 3551 Transparent High-Performance Cal Digital Print Media](#)

Key Features

- Finish: White, Matte
- Thickness: 2 mil
- Adhesive: Solvent-based, permanent
- Light Transmission: 60%
- Outdoor Durability: 10 years

Release Liner

84# silicone coated paper on one side

Adhesive

Clear, solvent polyacrylate, permanent

Applications

- Helps to hide and smoothly diffuse or evenly spread the internal light source
- Great alternative to back-spraying with paint

Compatible Substrates

- Acrylic
- Polycarbonate
- Translucent Flex-Face
- Glass

Splice Free Guarantee

Our Splice Free Guarantee assures you that every roll of ORAGUARD® over-laminate is free from splices. If you identify a verifiable splice, we will promptly replace the roll at no cost and provide you with \$500 as a token of our commitment to your satisfaction and uninterrupted graphic production experience.



ORAFOL Americas – GA
1100 Oracal Parkway
Black Creek, GA 31308
Phone: 888.672.2251

ORAFOL Americas – CT
120 Darling Drive
Avon, CT 06001
Phone: 800.654.7570

ORAFOL Canada
2831 Bristol Circle
Oakville, Ontario L6H 6X5
Phone: 888.727.3374

techsupport-americas@orafol.com – www.orafol.com

ORACAL® 8860

Translucent Light Diffusion Premium Cast

Technical Datasheet
12/24
Page 2 of 2

Technical Data

Thickness* (without liner and adhesive)	2-mil
Dimensional Stability (FINAT TM-14)	Adhered to steel, no shrinkage in cross direction, shrinkage in length 0.004" max
Temperature Resistance	Adhered to acrylic, -40°F to +176°F, no variation
Adhesive Power* (FINAT TM-1, after 24h)	4.11 lb/in glass 3.65 lb/in acrylic
Tensile Strength (DIN EN ISO 527)	Along: Min. 21 MPa Across: Min. 21 MPa
Elongation at Break (DIN EN ISO 527)	Along: Min. 120% Across: Min. 120%
Resistance to cleaning agents	Adhered to acrylic glass, 8h in mild detergents (0,5% household cleaning agents) in room temperature and in 149°F, no variation
Shelf Life**	2 years
Minimum Life Expectancy***	10 years
Minimum Application Temperature	46°F
Available Lengths Available Widths	150' (50-yard) and 30' (10-yard) 48"
Recommended Application Tapes	ORATAPE® Series HT55, MT95, MT72, MT80P

*average

** in original packaging, at 68°F and 50% relative humidity

*** standard central European climate

Note

Surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination which could affect the adhesion of the material. Freshly lacquered or painted surfaces should be completely cured. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. Films with structured surface are naturally more sensitive than the unstructured. Accordingly, these films are to be treated carefully both in processing and in cleaning. Impurities affect the appearance of structured films and require more frequent cleaning. Furthermore, the application information published by ORAFOL is to be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

IMPORTANT NOTICE

All ORACAL® products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning ORACAL® products is based upon research which the Company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of ORACAL® products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

ORACAL® is a registered trademark of ORAFOL Europe GmbH.



ORAFOL Americas – GA
1100 Oracal Parkway
Black Creek, GA 31308
Phone: 888.672.2251

ORAFOL Americas – CT
120 Darling Drive
Avon, CT 06001
Phone: 800.654.7570

ORAFOL Canada
2831 Bristol Circle
Oakville, Ontario L6H 6X5
Phone: 888.727.3374

techsupport-americas@orafol.com – www.orafol.com