

Description

Translucent, cast PVC diffuser film with 30% light transmission, providing improved light distribution and uniformity in illuminated backlit signs while the matte surface prevents undesired light reflection.

Specially designed for high quality production of internally illuminated signs and can also be used on backlit acrylic, polycarbonate, and tensioned flexible substrates.

Additionally, consider this film for “milky-white” decorative “etched glass look” window applications.

Release Liner

84# silicone coated paper on one side

Adhesive

Clear, solvent polyacrylate, permanent

Area of Use

This film is specially designed for high quality production of internally illuminated signs and can also be used on backlit acrylic glass, glass and pre-tensioned banner material. Suitable for use on cutting plotters and for thermoforming.

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	150' (50-yard) and 30' (10-yard)
Available Widths	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.



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