

4-Year Optically Clear Print and Laminate

Fellers Black Label Optically Clear Overlaminates is a gloss calendered, pressure-sensitive print film and laminate featuring an ultra-clear solvent-based adhesive and a transparent liner providing the ultimate in clarity for a calendered film. This product is available in both permanent and removable versions. It can be used when ultra-clear lamination is required such as when working with perforated window films or reflective films, or when printing for either indoor or outdoor windows where optical clarity is required. While cold lamination is possible, Fellers recommends heat assist when possible, not to exceed 115 degrees.

Product Description	4-Year Optically Clear Print and Laminate
Film	
Film Type	Calendered Vinyl
Film Thickness (mils) ASTM-D 1593	3 mil; 75 micron (+/- 10%)
Gloss Level	≥ 80
Elongation (%) ASTM D882	MD ≥ 140
Dimensional Stability (% shrinkage) ASTM D1004	MD ≥ 0.030"
Adhesive	
Adhesive Type	Solvent
Adhesive Thickness	1.2-1.3 mil; 31.5-33 micron
Adhesive Color	Clear
Peel Strength on Glass: 15 min typical value (lbs/in / N/25m) (perm/rem)	2.9 / 2.1
Peel Strength on Glass: 24 hrs typical value (lbs/in / N/25m) (perm/rem)	4.4 / 3.5
Liner	
Liner Weight (lbs / gsm)	90 / 135
Liner Type	Synthetic transparent
Liner Thickness (mils / microns)	4 / 100
Release Force @ 300" / min (g/2") ASTM D-1000	28 - 36
Performance Guidance	
Application Temperature	45 to 75 °F
Service Temperature	-50 to 180 °F
Shelf Life	2 years
Storage Temp / Rel. Humidity	70 °F / 50%
Outdoor Durability	4 years †
Removability	With heat

Disclaimer

All data provided in this document is based upon tests executed by Fellers or their manufacturing partners and determined to be reliable information. Results may represent an average and any minimum or maximum values provided should be considered as a recommendation based on average circumstances. In the end, it is up to the end user to determine at their risk if the product is right for the desired application and outcome. These settings do not provide or imply a guarantee of the products use, outdoor durability, removability, or printability. In general, non-vertical applications can result in a reduced performance of 50% or more. This information is subject to change at any time without notice.

Notations:

† Typical weather conditions, Vertical mounted, Unprinted.
 Overall durability of the product is application dependent and should be considered the shortest-term durability of any of the finished sign components.
 MD - Machine Direction



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