

## 4-mil Intermediate Laminate

Fellers Black Label Intermediate Overlaminate is a calendered, pressure-sensitive laminate featuring a solvent-based adhesive. This product is available in gloss and matte/luster finishes and should be used for abrasion and UV-resistance in short-to-medium term applications. While cold lamination is possible, Fellers recommends heat assist when possible, not to exceed 115 degrees.

Product Description	4-mil Intermediate Laminate - Gloss or Matte/Luster
<b>Film</b>	
Film Type	Calendered Vinyl
Film Thickness (mils) ASTM-D 1593	4 mil; 100 micron (+/- 10%)
Gloss; Matte	≥ 80; ≤ 40
Elongation (%) ASTM D882	MD ≥ 120
Dimensional Stability (% shrinkage) ASTM D1004	MD ≥ 0.026"
<b>Adhesive</b>	
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)	3.1
Peel Strength on Glass: 24 hrs typical value (lbs/in / N/25m)	4.8
<b>Liner</b>	
Liner Weight (lbs / gsm)	90 / 135
Liner Type	SSPE <sup>1</sup>
Liner Thickness (mils / microns)	7 / 178
Release Force @ 300" / min (g/2") ASTM D-1000	25 - 36
<b>Performance Guidance</b>	
Application Temperature	Heat assist to 115 °F max
Service Temperature	-40 to 180 °F
Shelf Life	2 years
Storage Temp / Rel. Humidity	70 °F / 50%
Outdoor Durability	3 years †

### 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

<sup>1</sup> SSPE - Single-Sided PE



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