

REFLECTIVE

Fleet Grade Reflective Adhesive Vinyl

Common Uses
Traffic Markers, Emergency Vehicles, & Other High Visibility Surfaces

Longevity
Long-term (6 Years)

Environment
Indoor & Outdoor

Print Sides
Single-sided

Size Options
Custom Size

Options
Contour Cut

Technical Data >

TECHNICAL DATA SHEET

PHYSICAL CHARACTERISTICS

Thickness (without liner and adhesive): 5 mil

Release Liner: 89# PE-coated silicone paper

Adhesive: High initial tack. Clear, solvent-based, permanent adhesive (removable with heat)

Minimum application temperature: > +60°F

For best application experience:

- Apply graphics in a controlled environment between 65°F – 75°F.
- Ideal humidity between 50% - 60% humidity

Application Method: Dry Application Only

Temperature Resistance: Adhered to aluminum, -58°F to +203°F, no variation

Suitable fire extinguishing media:

- Water spray mist, dry extinguishing agent, carbon dioxide, foam

Fire Rating: Meets ASTM # 84-07 Class "A"

Adhesive Power (FINAT TM-1, after 24 h, average):

- Adhered to stainless steel: 3.4 lb/in (tear of film)

Tensile Strength (DIN EN ISO 527): Along: Min.10 MPa | Across: Min. 10 MPa

Elongation at Break (DIN EN ISO 527): Along: Min. 100% | Across: Min. 100%

Seawaterability (DIN 50 021): Adhered to aluminum, after 100h/73°F, no variation

Minimum Life Expectancy (based on accepted application procedures on vertical surfaces):

- Up to 7 years (unprinted)
- Up to 6 years (printed + laminated)

Optical Performance:

- Minimum coefficient of retroreflection (R) cd/fc/ft^2 (cd · lx^{-1} · m^{-2}):
  - 0.2° Observation angle:
    - Entrance angle -4°: 70 | Entrance angle 30°: 30
  - 0.5° Observation angle:
    - Entrance angle -4°: 30 | Entrance angle 30°: 15
- Daytime Luminance Factor (Y%):
  - Minimum: 27 | Maximum: N/A

Color Specification Limits (Daytime):

- (CIE x,y chromaticity coordinates)
  - Point 1: x = 0.303, y = 0.300
  - Point 2: x = 0.368, y = 0.366
  - Point 3: x = 0.340, y = 0.393
  - Point 4: x = 0.274, y = 0.329

Continued >

LAMINATE DATA

2-mil, premium cast PVC film with a UV extension factor of four years.
Release Liner: 55# silicone-coated paper
Adhesive: Clear, solvent-based, permanent adhesive
Thickness (without liner and adhesive): 2-mil
Temperature Resistance: Adhered to aluminum, -58°F to +230°F, no variation
Fire Behavior (DIN 75200) Fire Rating:
    Adhered to steel, self-extinguishing ASTM E 84-07 Class "A"
Adhesive Power (FINAT TM-1, after 24 h, average):
    Adhered to stainless steel: 2.74 lb/in
Tensile Strength (DIN EN ISO 527):
    Along: Min. 19 MPa
    Across: Min. 19 MPa
Elongation at Break (DIN EN ISO 527):
    Along: Min. 120%
    Across: Min. 120%
Seawaterability (DIN 50 021): Adhered to aluminum, after 100h/73°F, no variation
Minimum Life Expectancy (based on accepted application procedures on vertical surfaces): 8 years
Minimum Application Temperature: 46°F
UV Protection Extension Factor: +4 years