



Lightweighting Technology for the Transportation Industry

PRODUCT DESCRIPTION



Translite was developed specially for truck and trailer exterior trim panels. Translite is a highly engineered aluminum substrate exhibiting excellent yield strength and exceptional brightness. This substrate is coated with a proprietary finish developed and tested by Alcoa. A component made from Translite can resist the daily hazards of the road and maintain an attractive finish for years.

Translite has been engineered as a replacement for 304 stainless steel in van trailer doors, side panels and corner panels. Translite offers unique product benefits including a 2/3 reduction in weight and substantial cost savings, combined with attractive appearance and long-term durability.

SPECIFICATIONS

Total Reflectance (1)	65
Gloss (measured at 20 degrees).....	95
Cross Hatch Test	Pass, no tape pickoff
4T Bend Test (180 degree).....	Pass, no obvious fracturing or blistering of paint, no tape pickoff

(1) Technidyne Corporation TR-1 or TR-2 Total Reflectometer, ASTM E 1651-94.

MECHANICAL PROPERTIES

(TYPICAL)

Ultimate Strength.....	44ksi
Yield Strength	41ksi
Elongation, % in 2.....	5 %

TOUGHNESS TESTED

Before Alcoa scientists and engineers were certain that TransLite trim was good enough for the industry, they administered some tough tests.

- Salt Spray
- Gravel/Salt Spray
- Copper Acidified Salt Spray
- Intermittent Acidic Salt Spray
- Condensing Humidity
- Thermal Shock
- Water Spotting
- XW Carbon Arc Weatherometer
- Xenon Arc Weatherometer
- T-Bend
- Reverse Impact
- Oven Aging
- Dimensional Stability
- Sulfide Stain Test
- Water Immersion
- High Pressure Car Wash
- Environmental Cycle Test
- Abrasion Resistance
- Cleanability
- Galvanic Corrosion
- Acid Spotting
- Cold Crack Corrosion
- Soap Spotting
- Dime Scrape
- Scab Corrosion
- Wear Resistance
- Tape Adhesion
- Xylene Resistance
- Cold Checking
- Sulfur Dioxide Stain Test
- Gloss
- Corrosion Resistance
- Pencil Hardness
- Distinctness of Image
- Cold Impact
- Scribe Test
- Gasoline Resistance
- Detergent Resistance
- Scratch Test
- Cleaning Solvent Resistance
- Mandrel Bend Plus
- Condensing Humidity
- Chemical Resistance (gasoline, Tacleen washer fluid)
- Cycled Humidity and Ultraviolet Light Exposure

