

Composite ULD Skins

Description

MACRO-Lite is an engineered fiber reinforced sheet with superior impact resistance, durability, and flame resistance. It is designed as a drop-in replacement for sheet metal and traditional composite laminates and can be customized for most applications.

Features



Typical Mechanical Properties

| | Weight (lbs/ft ²) | Thickness (in) | 1" Break Strength (lbs) | ASTM D3884 Taber Abrasion* (mg loss per revolution) | ASTM D3039 Min. Tensile Strength (Mpa) | ISO 12236 Puncture* (kN) |
|---------------------|----------------------------------|-------------------|----------------------------|---|--|--------------------------------|
| MACRO-Lite ML201-DF | .370 | .051 - .062 | 2700 | <.030 | >320 | 9.00 |
| MACRO-Lite ML235-DF | .275 | .040 - .050 | 2350 | <.005 | >350 | 7.25 |
| MACRO-Lite ML202-DF | .275 | .038 - .046 | 2000 | <.030 | >300 | 5.00 |

*QBS to ML235/ML201/ML202

Specifications

| Specification | Result |
|--|-----------------------------------|
| Flammability: 14CFR25.853d App F, Part 1 (a)(2)(iv) | ALL |
| Flammability: 14CFR25.853d App F, Part 1 (a)(1)(ii) | ALL |
| Flammability: 14CFR25 App F, Part III – Ceiling Orientation | ML201-DF / ML202-DF Only |
| Weathering: Exterior films pass 10+ year weathering in FL & AZ | ALL |
| Weathering: Exterior films pass accelerated weathering (Xenon exposure Quarz Boro 2500kJ) | ALL |
| UV & Humidity: ISO 12236 / ISO 4892-3 Cycle 1 (QBS, Puncture & Tensile) | PASS |
| Fungus Resistance: MIL-STD-810g, Method 508.6 (QBS) | PASS |
| Optional Antimicrobial: JIS Z 2801 (ISO 22196) | 99%+ reduction of tested microbes |