

Boltaron® 9865 TERREFORM®

RECYCLED GRADE FAR RATED SHEET

9 0 0 0
S E R I E S

CHARACTERISTICS

- Meets FAR 25.853 (a) and (d)
- Made with recycled content
- Impact resistant
- Maintains wall thickness integrity in deep draw forming

USES

- Non-aesthetic parts
- Hidden aircraft components

PERFORMANCE DETAILS

FAR RATINGS

FAR 25.853(a)(i)	(Flammability) (Vertical burn, 60 sec) Pass
FAR 25.853(a)(ii)	(Flammability) (Vertical burn, 12 sec) Pass
FAR 25.853(d)(Part IV)	(OSU Heat Release) (Peak - HRR, kW/m ² <65) (2 Min - HRR, kW min/m ² <65)
FAR 25.853(d)(Part V)	(NBS Smoke) (Ds Max <200)

PROPERTIES

Specific Gravity (ASTM D792)	1.50	
Tensile Strength @ yield (ASTM D638)	5,000 psi	34.5 MPa
Tensile Modulus (ASTM D638)	450,000 psi	3,102.6 MPa
Flexural Strength (ASTM D790)	7,250 psi	50 MPa
Flexural Modulus @ yield (ASTM D790)	353,000 psi	2,433.8 MPa
Izod Impact Notched (ASTM D256)	73 °F 1.8 ft-lb/in	23 °C 96 J/m
Rockwell Hardness R-scale (ASTM D785)	103	
Heat Deflection Annealed (ASTM D648)	168.4 °F @264 psi	75.8 °C @1.8 MPa

* Independent lab tests. All tests at 73 °F (23 °C) in dry conditions unless otherwise noted.

SHEET SIZES

Lengths	to 120 in	3,048 mm
Widths	to 60 in	1,524 mm
Gauges	from 0.040 to 0.250 in	from 1.02 to 6.35 mm

Custom Blank sizes, gauges on request

THERMOFORMING GUIDELINES

Mold Shrinkage	0.5 - 0.7%	
Forming Temperature	335 - 370 °F	168 - 188 °C
Typical Heater Settings	30 - 50% Top 50 - 70% Bottom	
Drying	Not required	

Note: Due to added variation from recycled content, quality tolerances are wider than standard extruded sheets. Contact SIMONA Boltaron quality or technical services for full information.

Attention: Avoid using cleaners containing quaternary ammonium compounds. In some cases, disinfectants containing quaternary ammonium compounds (QACs) could cause discoloration when left on at elevated temperatures and should be avoided for use on this grade of Boltaron material. For a full cleaning guide, visit www.boltaron.com/cleaning-and-disinfecting.

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DESIGN OPTIONS

Colors Gray 2357, Blue 8321
Dark Gray 2403, Charcoal 2482,
Light Beige 6625, Taupe 2430

Texture VL

Minimum 2,000 lbs



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RELIABILITY MEETS INNOVATION