



ENDURALITE LEATHER

Enduralite 1.0

EnduraLite 1.0 is the enhanced version of our premier engineered leather product. EnduraLite 1.0 maintains all of the outstanding features and characteristics found in our initial offering including superior durability, ink resistance and ease of maintenance. An added benefit of EnduraLite 1.0 is that it is now more than 60% lighter than traditional leather and 30% lighter than bonded leather. EnduraLite 1.0 boasts a woven backing improving long term performance and aesthetics and is also available as a nano-perforated, breathable option, making it the ideal alternative to upholstery fabric.

Features & Benefits

- 100% certifiable by similarity.
- Nano-Perforation allows air to flow through without allowing moisture to pass or absorb.
- Fire retardant woven aramid backing meets all FAA Requirements for burns, eliminating the need for aftermarket FR treatment.
- EnduraLite 1.0 is inherently ink resistant. With our exclusive All Leather Maintenance cleaning products, any number of stains can be removed without any damage or altering of the material.
- Independent lab testing shows no appreciable wear after 200,000 cycles of the “Squirmin Herman” test.
- Delivers a 100%+ improvement over competitive faux leather products in a tongue tear strength test.
- Proven performance in service for 3+ years.

Cleaning, Maintenance and Repair







- EnduraLite 1.0 is easily cleaned with standard cleaning chemicals. It is recommended to follow the Perrone Manufacturer's Cleaning & Maintenance Specification for best results.
- Ink Removal can be performed on-wing.
- Material can be repaired in a fashion similar to genuine leather and/or your current soft good.

Aer Lingus reviewed several options across the market and determined that Perrone's Enduralite was the optimum choice based on weight and strength characteristics, design and color options available, and the quality of the experience for passengers. Perrone was able to provide an integrated solution in terms of design, manufacture, certification and support for fitting of the seat-covers; all of which was achieved flexibly and within challenging timelines.

Micheal Gannon,
Director Product and Brand, Aer Lingus

Independent Test Results

EnduraLite 1.0 versus competitive products

	1st	2nd	3rd	4th	5th
Weight g/m²	 Perrone Aerospace	Ultra Leather	IZIT Leather	E-Leather	Luxaire II
AATCC 15 Color Fastness	 and Competitors	X	X	X	X
ASTM D 737 Air Permeability	 Perrone Aerospace	Ultra/E-Leather	X	Luxaire II	IZIT Leather
ASTM D 751 Tongue method	 Perrone Aerospace	E-Leather	Luxaire II	IZIT Leather	Ultra Leather
ASTM D 751 Tensile strength	 Perrone Aerospace	E-Leather	Luxaire II	IZIT Leather	Ultra Leather
ASTM D 3107 Stretch and Recovery	 Perrone Aerospace	E-Leather	IZIT Leather	Luxaire II	Ultra Leather

Enduralite 1.0 Specs	
Width	54 inches (137 cm)
Composition	100% Polyurethane face / 100% Woven Aramid backing
Thickness	.5 ± .1 mm
Weight	1.0 oz. per sq. ft. / 305 gm sq. meter ± 40 gm
Blocking	Federal Test Method STD. No. 3121.1 / No damage to finish
Abrasion	ASTM D-3884 (2,500 cycles, 500 g H-18 wheels) No wear through to russet
Crocking	ASTM D-5053 (50 cycles wet & dry) 4 or better on the AATCC grey scale for color change
Colorfastness	72 hour exposure to UV light / 4 or better on the AATCC grey scale for color change
Flammability	Will meet all requirements of either a 12 or 60 second vertical burn in accordance with FAR 25.853, ABD0031, AITM 3.0005
Tear Strength	ASTM D – 4705 / Minimum of 12 lbs. (5.44 kg, 53.35 N)
Flexibility	ASTM D -2097 (60,000 cycles) No cracking of finish
Color Match	Spectrophotometer measurement of DE CMC ≤ .50 target



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