



LUXURY TOP GRAIN LEATHER, GENUINE, FINISHED, STEERING WHEEL, SHIFT KNOB, SHIFT BOOT, AND DRIVER AIR BAG COVER

WSS-M1F32-A1

1. SCOPE

The material defined by this specification is top grain leather made from steer or heifer hides which has been tanned and softened to maximize material haptics. Top coat is a finish that allows for a specialized haptic which is a primary attribute for this leather.

2. APPLICATION

This specification was released originally as top grain leather for hand wrapped steering wheels, shift knob, shift boot and driver airbag cover applications.

2.1 LIMITATIONS

- This leather is not to be used for seating, interior trim, or instrument panel applications
- Fully perforated leather is not to be used on steering wheels or shift knobs.
- Top coat finish may not meet all Resistance to Colorfastness requirements for Perspiration after Resistance to Interior Weather (section 3.9.6.2 in WSS-M98P12-C2). Testing should be performed per section 3.15 below and submitted as report only in lieu of 3.9.6.2.

3. REQUIREMENTS

For all test methods, no individual measurement shall fall below the minimum values specified herein. In the event of an issue with a test result, testing on the finished part shall prevail.

3.1 APPROVED SOURCES

This specification requires the use of approved sources. Only the sources identified on the Ford Approved Source List (ASL) can be used when this specification is listed on the drawing, CAD file, or other documents. The list of approved sources is located within Ford at www.mats.ford.com or available externally through a Ford Materials Engineer.

3.2 APPEARANCE

The color, grain, gloss and hand shall match the approved Corporate Design master sample.

3.3 LUXURY LEATHER

Leather that is full grained with no alteration to the surface. Minimal top coat is applied to enhance the haptics of the material.

3.4 LEATHER PERFORMANCE

Materials manufactured to this specification shall also meet the requirements contained in WSS- M98P12-C2/latest.

Date	Action	Revisions	Rev 0
2017 08 29	Released		



Documents

Document Sharing Hub



Test plans for both construction and color approvals can be found on Table 1 within WSS-M98P12-C2/latest.

3.5 CONDITIONING AND TEST CONDITIONS

All test values are based on material conditioned for not less than 24 hrs prior to testing in a controlled environment of 23 +/- 2 °C and 50 +/- 5% relative humidity. Testing of the material should occur in the conditioning environment or soon after removal.

3.6 SAMPLE SELECTION LOCATIONS

The location of the test samples is described in ISO 2418 or ASTM D2813 for physical testing of leather samples. Refer to WSS-M99P12-C2/latest for samples to be taken from the belly and backbone areas as noted in Table 1 of that specification.

3.7 FINISH

The leather crust must be similar in color (minimum 80% color match) to the surface coating. This is to prevent undyed fibers from showing through after sewing. No correcting or repair of any kind shall be allowed including but not limited to buffing, filling, sanding or stuccoing. Buffing is allowed for split leather only.

3.8	THICKNESS (ASTM D 1813)	1.1 – 1.4 mm
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3.9	BREAKING STRENGTH (ASTM D 2208)	850 N min
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3.10	ELONGATION AT 100 N (ISO 3376, Cross and longitudinal directions, Specimen size 50 x 100 +/- 2 mm , 50 mm/min test speed, 2 N preload)	8 - 16 %
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3.11	TEAR STRENGTH (ASTM D 5733, any direction)	170 N min
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3.12	STIFFNESS (FLTM BN 157-02, measurements shall be taken along either side of the backbone.)	Report Range
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Note: Reported range in the construction approval package must be maintained lot to lot throughout production.

3.13	SHRINKAGE (FLTM BN 105-03, except heat cycle at 100+/-2 °C, 3 cycles, Report all measurements)	5% max
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3.14	ADHESION OF SURFACE COATING (ISO 11644, Adhesive Sicomet 8400 or equivalent Supplier: Henkel, or equivalent Condition bonded test specimens for 1 hour min.)	
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