



PERFORMANCE, FLOOR MAT, SERGE AND EMBROIDERY THREAD

WSS-M8P22-A

1. SCOPE

This specification defines the performance requirements for thread used in functional and decorative purposes for floor mats.

2. APPLICATION

This specification was released originally for material used as serging and embroidery thread for floor mats.

2.1 LIMITATIONS

This thread is not to be used for Seating or Interior Trim Applications.

3. REQUIREMENTS

3.1 APPROVED SOURCES

This specification is performance based and does not use approved sources.

3.2 CONDITIONING AND TEST CONDITIONS

All test values are based on material conditioned for not less than 24 h 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.

3.3 APPEARANCE

The color, pattern and finish shall match the approved Corporate Design master sample.

3.4 PHYSICAL PROPERTIES

3.4.1	Straight Tensile Strength, Original (ASTM D204-02)	(N), Report*
3.4.1.1	Straight Tensile Strength after Heat Aging (Heat age 7 days at 80 +/- 2°C)	70% of original min.
3.4.1.2	Straight Tensile Strength after Fade (FLTM BO 116-01, 225.6 kJ/m ²)	70% of original min.
3.4.2	Straight Elongation, Original (ASTM D204-02)	(%), Report*
3.4.3	Heat Aging (7 days at 80 +/- 2°C AATCC Evaluation Procedure 1)	Rating 4 min

No fiber deterioration or color tone change in excess of the above rating.

Date	Action	Revisions	Rev. 2
2017 07 07	Revised	See Summary of Revisions	A. Collins, NA
2013 12 11	Revised	See Summary of Revisions	L. Sinclair, NA
2010 12 16	Activated		L. Sinclair, NA





* Report values will be documented on the Approved Source List under the specific approval.

3.5 APPEARANCE PROPERTIES

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|-------|--|--------------|
| 3.5.1 | Resistance to Interior Weathering 225.6 kJ/m ²
(FLTM BO 116-01,
AATCC Evaluation Procedure 1) | Rating 4 min |
| 3.5.2 | Resistance to Crocking
(FLTM BN 107-01
AATCC Evaluation Procedure 2) | |
| | Dry | Rating 4 min |
| | Wet | Rating 4 min |
| 3.5.3 | Soiling and Cleanability (For embroidered badges only)
(FLTM BN 112-08,
AATCC Evaluation Procedure 2) | Rating 3 min |

3.6 SEWING TEST

After the thread has been tested per the requirements stated above, it shall be assessed by a sewing test conducted under normal production conditions with each supplier. The thread must process under production conditions without any reservations. Supplier's deliveries can be rejected because of excessive rates of breakage and/or other manufacturing difficulties (knots, foreign matter, stretch etc.). In addition, after sewing, the thread shall not exhibit objectionable streaks or any color change in hue or purity of color.

3.7 NUMBER OF KNOTS

The thread spool shall be free of all imperfections of such character which would cause the thread to break during sewing.

3.8 IDENTIFICATION

Each spool of thread must bear the name of the manufacturer, color suffix, and yarn size.

3.9 PACKING

The material must be packed in such a way that in transit no slippage of the layers or any other damage occurs.

4. GENERAL INFORMATION

This information given below is provided for clarification and assistance in meeting the requirements of this specification. Contact gmfs@ford.com for questions concerning Engineering Material Specifications.

4.1 APPROVAL OF MATERIALS

Suppliers desiring approval of their materials shall first obtain an expression of interest from Purchasing, Design or Product Development, and Materials Engineering. The supplier shall submit a completed copy of their laboratory test reports, signed by a qualified and authorized representative of the test facility, demonstrating full compliance with all the requirements of the Material Specification. Tested material samples must be available for review upon request and kept for a minimum of one year. Upon request, the supplier will review the associated