



FORD Certifications 2017 RSMS, WSS Polyfuze™ Polymer Fusion Label Technology

Performance Data

The following performance data is representative of polymer fusion label performance as certified on behalf of Ford Motor Company.

All tests referenced within HES A 1045-11 are shown below. Results listed as N/A are due to Polymer Fusion Labeling Technology not being an adhesive-based label.

2017 Restricted Substance Management Standard (RSMS)

Test Name	Test Specs	Surface	Result
Restricted Substance Testing	Conformity / Nonconformity	PP Production Sample	<i>Samples Complied</i>

WSS-M99P2222-D1

Test Name	Test Specs	Surface	Result
Allergen Requirement	Conformity / Nonconformity	PP Production Sample	<i>Samples Complied</i>

WSS-M99P9999-A1

Test Name	Test Specs	Surface	Result
Restricted Substance Testing	Conformity / Nonconformity	PP Production Sample	<i>Samples Complied</i>

WSS-M15P4-G

Test Name	Test Specs	Surface	Result
Assembly Performance Color	Conformity / Nonconformity	PP Production Sample	<i>Samples Complied</i>

WSS-M1P158-A1

Test Name	Test Specs	Surface	Result
Abrasion Resistance	Conformity / Nonconformity	PP Production Sample	<i>Samples Passed</i>





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Test Criteria:

2017 Restricted Substance Management Standard (RSMS):

The purpose of 2017 RSMS is to identify substances and applications that are currently prohibited, as well as some that will become prohibited at a specified future date. To avoid unnecessary redesign/testing, new production parts must comply with these future prohibition requirements during engineering validation gateways based on GPDS (Global Product Development System) program requirements. If engineering validation of new production parts meeting the future prohibition requirements will not be possible, concurrence by the relevant Program Team and appropriate Materials Engineering function will have to be sought.

WSS-M99P2222-D1:

The purpose of WSS-M99P2222-D1 is to harmonize VIEQ requirements within Ford Motor Company, and to document guidelines pertaining to certain materials with regards to Odor, Fogging and the emission of Formaldehyde and Volatile Organic Carbon Compounds (VOC's). In addition, the requirements for allergy testing of materials which have direct skin contact with the vehicle occupants and requirements for exterior air filtration are included. There is debate among the scientific community regarding potential health effects including allergies to the substances listed as well as acceptable exposure level. Ford adopts these guidelines to be consistent, to the extent practicable, with third party standard setting organizations such as ISO, SAE, DIN, and EN but does NOT represent them to be a definitive measure of safety.

WSS-M99P9999-A1:

The purpose of WSS-M99P9999-A1 is to inform suppliers to Ford Motor Company, and Ford personnel, of restrictions pertaining to certain substances. By regulation or by Ford direction, these substances shall be restricted or excluded from parts, materials, equipment, packaging, office supplies, machinery and/or tooling, hereinafter referred to as "product(s)", supplied to and/or manufactured by Ford or intended for use in Ford products. This Standard supplements but does not supersede the responsibility of each supplier to comply with laws and regulations for the receiving Ford location(s). It is the duty of all Suppliers of products to Ford to comply with this Restricted Substance Management Standard. This document also explains Ford Motor Company's commitment to product compliance, quality assurance, health and safety, and environmental management. SUPPLIERS' REPORTED DATA WILL BE USED TO PROVE LEGAL COMPLIANCE.





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WSS-M15P4-G

The WSS-M15P4-G specification defines the minimum durability and performance requirements of hard, mold-in-color interior trim panels, moldings, overhead and floor consoles, and hard instrument panels where various materials are combined to provide a trim assembly having decorative and/or functional features.

- 3.6.1 Short term environmental cycling, below the belt line
- 3.6.2 Long term environmental, below the belt line
- 3.8 Resistance to interior weathering. Exposure 601.6 kL/m²
- 3.9 Soil/Cleanability
- 3.10 Scratch Resistance
- 3.11 Fogging
- 3.12 Odor
- 3.13 Flammability (no testing per supplier material cert)

WSS-M1P158-A1 Abrasion and Paint Wear Resistance Using The ABREX Machine

(FLTM BN 155-01, ISO 105-A02/AATCC Procedure 1, printing must be tested on production representative parts. If a flat surface is not available, then surrogate panels printed in the production facility can be used as surrogate.)

Load (N)	# of Cycles	AATCC Color Change	Abraded Area	Result
5	30,000	N/A	Labels Readable	<i>Samples Passed</i>