



## Proven Test Requirements

Basecoat Formula  
Substrate Grade

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for more information

Test Description	Results	Requirements	Meets the following OEM Specifications
Film Build	Not Applicable	Primer: Report Results in microns	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Film Build (Midcoat)	Not Applicable	Report Results in microns	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Film Build (Topcoat)	Not Applicable	Report Results in microns	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Film Build (Basecoat)	25.4	Report Results in microns	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
60° Glossmeter	48.0/48.0	Report value	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
COLOR (Visual Assessment)	Pass	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Xenon Arc (SAE J2412 Q/B) x 1240 kjs, Post Appearance	Pass	APPEARANCE: No signs of peeling, blisters, wrinkles, cracking, delamination, or loss of gloss	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
AATCC EP-1	AATCC 4-5	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Taber Abrasion (CS10, 500gr Load) x 1,000 cycles	Pass - No Wear Through	No wear through to the substrate and maintain pattern definition	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Resistance to Scuffing(Head A, 0.9Kg Load) x 10 cycles (Sand 1200 grit, Polish)	Pass Pass	Decorated top surface shall be capable of being sanded with 1200 grit or finer and polished with no evidence of change in gloss or appearance other than traces of the polishing lines	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Res to Non-Condensing Humidity x 2 cycles (ESPEC) Allow 24 hr recovery, Post Appearance	Pass	APPEARANCE: No discoloration, tackiness, blistering, crazing, loss of embossing, delamination, or other detrimental effects	(MS.90053), Honda, Toyota, Tesla, and Daimler
AATCC EP-1	Pass - AATCC 5	Grade 4 Minimum	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Delta E	Pass 0.06	3.0 Maxium	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Delta C	0.03	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Delta H	0.00	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Absolute L	78.51	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Absolute a	-0.07	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Absolute b	0.38	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Res to Condensing Humidity x 3 cycles (Auto Tech Fog) Allow 24 hr recovery Post Appearance,	Pass	APPEARANCE: No discoloration, tackiness, blistering, crazing, loss of embossing, delamination, or other detrimental effects	(MS.90053), Honda, Toyota, Tesla, and Daimler
AATCC EP-1	Pass - AATCC 5	Grade 4 Minimum	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Delta E	Pass 0.03	3.0 Maxium	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Delta C	0.03	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Delta H	-0.01	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler



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Absolute L	79.82	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Absolute a	-0.07	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Absolute b	0.32	Report Results	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Humidity @38°C x 96 Hrs	Pass	No change to the surface	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Fogging Test x 3 hrs (Photometric) x 16 hr recovery (21°C ±2°C, 50%RH ±5%) Heat Temp: 100°C (±0.5°C), Cool Plate: 21°C (±0.5°C) 3 panels			Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Fogging Number - 16 hr recovery	Pass 94	70% Minimum	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Appearance - 16 hr recovery	Pass - No Droplets	No Droplets/Particles	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Flammability Test OUTSOURCE	Not Applicable	Maximum 102mm/minute	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Crosshatch (Method B) Tape Adhesion (11x11, 1mm, 3M-898 TAPE)	Pass Grade 5B	5B Min. 0% Removal	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Crosshatch (Method B) Tape Adhesion (11x11, 1mm, 3M-898 TAPE)	Pass Grade 5B	5B Min. 0% Removal	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Heat Age @ 82°C x 7 Days 1 Hr Recovery Post X-scribe, 3M-898 tape	Pass	No Change	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Post X-Scribe	Pass - Grade 5A	Grade 5A Minimum	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Heat Age @ 82°C x 7 Days 1 Hr Recovery Post X-scribe, 3M-898 tape	Pass	No Change	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Post X-Scribe	Pass - Grade 5A	Grade 5A Minimum	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Solvent Wipe (MEK) x 10 Double Rubs	Pass - Grade 0	PANEL: No change of surface	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Paint Residue on Cloth	Pass - Grade 0	Rating 0	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Windex x 25 Double Rubs	Pass - Grade 0	PANEL: No change of surface	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Paint Residue on Cloth	Pass - Grade 0	Rating 0	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Lysol Direct x 10 Double Rubs	Pass - Grade 0	PANEL: No change of surface	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Paint Residue on Cloth	Pass - Grade 0	Rating 0	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Formula 409 x 10 Double Rubs	Pass - Grade 0	PANEL: No change of surface	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Paint Residue on Cloth	Pass - Grade 0	Rating 0	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Coffee Spot Test Open x 24 Hrs @ 23°C. Clean with Windex	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler



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Coffee Spot Test Open x 24 Hrs @ 23°C. Clean with Lysol Direct	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Coffee Spot Test Open x 24 Hrs @ 23°C. Clean with Formula 409	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Coca-Cola Spot Test Open x 24 Hrs @ 23°C. Clean with Windex	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Coca-Cola Spot Test Open x 24 Hrs @ 23°C. Clean with Lysol Direct	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Coca-Cola Spot Test Open x 24 Hrs @ 23°C. Clean with Formula 409	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Mustard Spot Test Open x 24 Hrs @ 23°C. Clean with Windex	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Mustard Spot Test Open x 24 Hrs @ 23°C. Clean with Lysol Direct	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Mustard Spot Test Open x 24 Hrs @ 23°C. Clean with Formula 409	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Italian Salad Dressing Spot Test Open x 24 Hrs @ 23°C. Clean with Windex	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Italian Salad Dressing Spot Test Open x 24 Hrs @ 23°C. Clean with Lysol Direct	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Italian Salad Dressing Spot Test Open x 24 Hrs @ 23°C. Clean with Formula 409	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Chewing Tobacco Spot Test Open x 24 Hrs @ 23°C Clean with Windex	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Chewing Tobacco Spot Test Open x 24 Hrs @ 23°C Clean with Lysol Direct	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Chewing Tobacco Spot Test Open x 24 Hrs @ 23°C Clean with Formula 409	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Armor All Protectant Spot Test Open x 24 Hrs @ 23°C. Clean with Windex	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Armor All Protectant Spot Test Open x 24 Hrs @ 23°C. Clean with Lysol Direct	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Armor All Protectant Spot Test Open x 24 Hrs @ 23°C. Clean with Formula 409	Pass	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Suntan SPF50 Lotion Spot Test Open x 24 Hrs @ 23°C. Clean with Windex	Pass, Comments: very slightly darkened ring	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Suntan SPF50 Lotion Spot Test Open x 24 Hrs @ 23°C. Clean with Lysol Direct	Pass, Comments: very slightly darkened ring	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Suntan SPF50 Lotion Spot Test Open x 24 Hrs @ 23°C. Clean with Formula 409	Pass, Comments: very slightly darkened ring	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Deep Woods Off (95% DEET) Spot Test Open x 24 Hrs @ 23°C. Clean with Windex	Pass, Comments: very slightly darkened ring	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Deep Woods Off (95% DEET) Spot Test Open x 24 Hrs @ 23°C. Clean with Lysol Direct	Pass, Comments: very slightly darkened ring	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler
Deep Woods Off (95% DEET) Spot Test Open x 24 Hrs @ 23°C. Clean with Formula 409	Pass, Comments: very slightly darkened ring	No changes as compared to non-tested sample	Ford (WSS-M2P188-B1), GM, Stellantis (MS.90053), Honda, Toyota, Tesla, and Daimler