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TEST REPORT

PRODUCT: FT 8327
SUPPORT: EPDM
SUBSTRATE: ABS
CERT NO.: 240815 - 0659



GMW 16443-TYPE-II-EXTERIOR-CYCLE-C

OEM Rev Date: Aug 18

Adhesion Performance Requirements For Adhesive Backed Light Trim and Foam
Type II - An adhesive backed foam composite that is retained by the adhesive for the life of the vehicle

Passing Type II Meets and Exceeds 3.5.1 Type I Exposure Requirements

TAPE REQUIREMENTS:

3.5.2 TYPE-II Exposure

SECTION 3.3.3 Edge Adhesion

3.5.3, Initial, As Received - 24 hrs @ RT

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C

17 hrs @ -30°C

72 hrs @ 70°C

24 hrs @ 38°C / 100% RH

7 hrs @ -30°C

24 hrs @ 38°C / 100% RH

7 hrs @ 70°C

24 hrs @ 38°C / 100% RH

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

SECTION 3.4 Peel Adhesion

3.5.3, Initial, As Received - 24 hrs @ RT

	<u>Specification</u>	<u>Results</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	Securely Bonded	Stable, No Lifting or Removal	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C

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24 hrs @ 38°C / 100% RH

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7 hrs @ 70°C

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

SECTION 3.5.8 Cold Shock

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

SECTION: 3.6 Tape Wet Out*

3.6, Tape Wet Out*

SECTION: 3.7.2 Release Liner

3.7.2, Liner Removal @ RT

CERTIFIED BY:

David Nichols II, Automotive Lab Technician

Stable, No Lifting or Removal

Pass

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C

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7 hrs @ 70°C

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

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3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

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3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

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3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

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7 hrs @ 70°C

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C

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3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

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3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C

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7 hrs @ 70°C

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C

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3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C

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3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	892.0	AF-P	Pass

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C

17 hrs @ -30°C

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3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

Appendix A Table A2

PRODUCT: **FT 8327**
 SUPPORT: **EPDM**
 SUBSTRATE: **ABS**
 CERT NO.: **240815 - 0659**

Table A2: GMW16443 Type II Applications Test Data Form

Section	Test	Standard	Requirements	Sample	Visual Edge Adhesion	Peel N/m	Failure Mode
3.5.3	Initial, As Received - 24 hrs @ RT	ISO 8510-2 Minimum of 525 N/m and Cohesive Failure of One or Both of the Adherends	1 2 3	Stable, No Lifting or Removal	966.7	AF-P	
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			Stable, No Lifting or Removal	780.2	AF-P	
3.5.5	Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			Stable, No Lifting or Removal	929.2	AF-P	
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C		1 2 3	Stable, No Lifting or Removal	1097.5	AF-P	
				Stable, No Lifting or Removal	1063.7	AF-P	
				Stable, No Lifting or Removal	1096.6	AF-P	
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C		1 2 3	Stable, No Lifting or Removal	1056.2	AF-P	
				Stable, No Lifting or Removal	1037.3	AF-P	
				Stable, No Lifting or Removal	1004.4	AF-P	
			1 2 3	Stable, No Lifting or Removal	1015.7	AF-P	
				Stable, No Lifting or Removal	1019.8	AF-P	
				Stable, No Lifting or Removal	1019.2	AF-P	
			1 2 3				
			1 2 3	Stable, No Lifting or Removal	902.4	AF-P	
				Stable, No Lifting or Removal	907.7	AF-P	
				Stable, No Lifting or Removal	931.3	AF-P	

Section	Test	Standard	Requirements	Sample	Result
3.6	Tape Wet Out, GMW15851	GMW 15851 is restricted and we cannot purchase	85% Tape Wet Out	1	Not Tested
				2	Not Tested
				3	Not Tested
3.7.2	Release Liner Contact	To Be Determined @ Tier	No Lift Prior To Vehicle Install	1	Not Tested
				2	Not Tested
				3	Not Tested
3.7.2	Liner Removal	ISO 8510-2	Less Than or Equal To 65 N/m	1	3.0
				2	4.4
				3	4.6