## **TEST REPORT**



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URL: tapes.averydennison.com PRODUCT: FT 1149X SUPPORT: 2 MIL PET SUBSTRATE: **ABS** 

CERT NO.: 230109 - 1039

FCA MS-CC-240

OEM Rev Date: Jul 16

Adhesion - Pressure Sensitive - Transfer Film



Reported

Reported

Table 1 - Phys SECTION: Adh	Properties and Tests sical Properties sesive Thickness n (.004 to .006 in)		Specification > 0.1 < 0.15 mm	Results 0.13	Status Pass
SECTION: Adhesive Softening Point 30 min @ 54°C under TBD Load, Ramped 8°C every 30 min		LP-463TB-14-01* 0 mins	Specification 79°C min	<u>Results</u> Not Tested	<u>Status</u> Not Tested
SECTION: Minimum Application Temperature 16°C			Specification 16°C min	<u>Results</u> 18	Status Pass
SECTION: Recommended Application Temperature 21°C to 38°C			Specification > 21°C < 38°C	Results 23	Status Pass
SECTION: Rele Adhesive Softer		LP-463PB-13-01*	Specification No Detrimental Paint Repair Effects	<b><u>Results</u></b> Easily Removes Without Damage	<u>Status</u> Pass
			Specification	Results	Status
20 mins @ RT	001011	LP-463TB-03-01 B*	0.44 N / mm	1.0	Pass
24 hrs @ RT		LP-463TB-03-01 B*	0.53 N / mm	0.8	Pass
250 hrs @ 79°C		LP-463CB-10-01*	0.88 N / mm	1.5	Pass
100 hrs @ 38°C / 100% RH		ASTM D1735*	0.7 N / mm	1.1	Pass
Cycles (3x)	24 hrs @ 79°C 24 hrs @ 38° C / 95% RH	LP-463CB-10-01*	0.7 N / mm	1.6	Pass

3.3 \	/ehicle	Interior	Air	Quality

24 hrs @ -29°C

Table 3 - Vehicle Interior Air Quality Material Performance Requirements

SECTION: 1.1 Odor **Specification** Results | Status Dry, 1 hr @ 79°C 0.7 N/mm 3 Noticeably Changed LP-463KC-09 01 **Pass** Wet, 1 hr @ 79°C - Deionized Water 4 Slightly Changed **Pass** SECTION: 1.2 Fogging **Specification** Results Status | SAE J1756 6 hrs @ 95°C, 21°C Cooling16 hrs @ RT 70 Units 100 **Pass** SECTION: 1.3 Aldehyde Evaluation CS-13398 **Specification** Results Status | 24 hrs Uncovered @ 23°C / 50% RH Formaldehyde Report mg/kg 0.868 Reported Reported

0.000 Acetaldehyde 0.000 Acrolein Sum of C2-C8 Carbonyls 0.000

CS-13398

SECTION: 1.4 Volatile Organic Compounds (VOC's) **Specification** Results 8 4 Status | 24 hrs Uncovered @ 23°C / 50% RH Benzene 0.218 Reported

Report ug/g

12-4-2018

SECTION: 1.5 Semi Volatile Organic Compounds (SVOC's) **Specification** <u>Results</u> Status | Reported

24 hrs Uncovered @ 23°C / 50% RH Report ug/g BDL - Below detection limitations based on a toluene surrogate

**CERTIFIED BY:** 

1-1-24 ISSUE DATE:

Materials tested to OEM requirements @ 72°F +/- 2°F and 50% RH +/- 5%. Test uncertainty and minor exclusions are available online or upon request. This certificate or report shall not be reproduced except in full, without the written approval of the Avery Dennison Performance Tapes. Status opinion based upon measurements obtained by personnel with appropriate training and professional experience.

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