



250 Chester Street
Painesville, Ohio 44077
Phone: 866-GO-AVERY (866-462-8379)
Fax: 888-358-4469
email: psa.tape@averydennison.com
URL: tapes.averydennison.com

TEST REPORT

PRODUCT: FT 1149X
SUPPORT: 2 MIL PET
SUBSTRATE: PP
CERT NO.: 230109 - 1040



FCA MS-CC-240
OEM Rev Date: Jul 16
Adhesion - Pressure Sensitive - Transfer Film

3.1 Physical Properties and Tests

Table 1 - Physical Properties

SECTION:	Specification	Results	Status
Adhesive Thickness 0.10 to 0.15 mm (.004 to .006 in)	> 0.1 < 0.15 mm	0.13	Pass
Adhesive Softening Point 30 min @ 54°C under TBD Load, Ramped 8°C every 30 mins	79°C min	Not Tested	Not Tested
Minimum Application Temperature 16°C	16°C min	18	Pass
Recommended Application Temperature 21°C to 38°C	> 21°C < 38°C	23	Pass
Release Liner Adhesive Softening Point	No Detrimental Paint Repair Effects	Easily Removes Without Damage	Pass

3.1 Physical Properties and Tests

Table 2 - Physical Properties

3.2 90 Degree Peel Test

SECTION:	Specification	Results	Status
Adhesion 20 mins @ RT	0.44 N / mm	0.8	Pass
24 hrs @ RT	0.53 N / mm	0.8	Pass
250 hrs @ 79°C	0.88 N / mm	0.7	Fail
100 hrs @ 38°C / 100% RH	0.7 N / mm	1.0	Pass
Cycles (3x) 24 hrs @ 79°C 24 hrs @ 38°C / 95% RH 24 hrs @ -29°C	0.7 N / mm	1.2	Pass

3.3 Vehicle Interior Air Quality

Table 3 - Vehicle Interior Air Quality Material Performance Requirements

SECTION:	Specification	Results	Status
1.1 Odor Dry, 1 hr @ 79°C Wet, 1 hr @ 79°C - Deionized Water	0.7 N / mm	3 Noticeably Changed 4 Slightly Changed	Pass Pass
1.2 Fogging 6 hrs @ 95°C, 21°C Cooling 16 hrs @ RT	70 Units	100	Pass
1.3 Aldehyde Evaluation 24 hrs Uncovered @ 23°C / 50% RH Formaldehyde Acetaldehyde Acrolein Sum of C2-C8 Carbonyls	Report mg / kg	0.868 0.000 0.000 0.000	Reported Reported Reported Reported
1.4 Volatile Organic Compounds (VOC's) 24 hrs Uncovered @ 23°C / 50% RH Benzene	Report ug / g	0.218	Reported
1.5 Semi Volatile Organic Compounds (SVOC's) 24 hrs Uncovered @ 23°C / 50% RH	Report ug / g	BDL - Below detection limitations based on a toluene surrogate	Reported

CERTIFIED BY:
Dave Nichols Jr, Automotive Lab Technician

ISSUE DATE: 1-1-24

Materials tested to OEM requirements @ 72°F +/- 2°F and 50% RH +/- 5%. Test uncertainty and minor exclusions are available online or upon request.
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Status opinion based upon measurements obtained by personnel with appropriate training and professional experience.
This laboratory is not accredited for the calibrations or tests marked *.