



TEST REPORT

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



FCA MS-CC-250
OEM Rev Date: Jul 16
Adhesion - Pressure Sensitive - Transfer Film

3.1 Physical Properties and Tests

Table 1 - Physical Properties

SECTION: Adhesive Thickness
0.10 to 0.15 mm (.004 to .006 in)

Table with 4 columns: Specification, Results, Status. Row 1: > 0.1 < 0.15 mm, 0.13, Pass

SECTION: Adhesive Softening Point LP-463TB-14-01*
30 min @ 54°C under TBD Load, Ramped 8°C every 30 mins

Table with 4 columns: Specification, Results, Status. Row 1: 79°C min, Not Tested, Not Tested

SECTION: Minimum Application Temperature
16°C

Table with 4 columns: Specification, Results, Status. Row 1: 16°C min, 18, Pass

SECTION: Recommended Application Temperature
21°C to 38°C

Table with 4 columns: Specification, Results, Status. Row 1: > 21°C < 38°C, 23, Pass

SECTION: Release Liner LP-463PB-13-01*
Adhesive Softening Point

Table with 4 columns: Specification, Results, Status. Row 1: 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: Adhesion

20 mins @ RT LP-463TB-03-01 B*

Table with 4 columns: Specification, Results, Status. Row 1: 0.44 N / mm, 0.8, Pass

24 hrs @ RT LP-463TB-03-01 B*

Table with 4 columns: Specification, Results, Status. Row 1: 0.53 N / mm, 0.8, Pass

250 hrs @ 79°C LP-463CB-10-01*

Table with 4 columns: Specification, Results, Status. Row 1: 0.88 N / mm, 0.7, Fail

100 hrs @ 38°C / 100% RH ASTM D1735*

Table with 4 columns: Specification, Results, Status. Row 1: 0.7 N / mm, 1.0, Pass

Cycles (3x) 24 hrs @ 79°C LP-463CB-10-01*
24 hrs @ 38°C / 95% RH
24 hrs @ -29°C

Table with 4 columns: Specification, Results, Status. Row 1: 0.7 N / mm, 1.2, Pass

3.3 Vehicle Interior Air Quality

Table 3 - Vehicle Interior Air Quality Material Performance Requirements

SECTION: 1.1 Odor

Dry, 1 hr @ 79°C LP-463KC-09 01
Wet, 1 hr @ 79°C - Deionized Water

Table with 4 columns: Specification, Results, Status. Row 1: 0.7 N / mm, 3 Noticeably Changed, Pass; Row 2: 4 Slightly Changed, Pass

SECTION: 1.2 Fogging SAE J1756
6 hrs @ 95°C, 21°C Cooling 16 hrs @ RT

Table with 4 columns: Specification, Results, Status. Row 1: 70 Units, 100, Pass

SECTION: 1.3 Aldehyde Evaluation CS-13398
24 hrs Uncovered @ 23°C / 50% RH Formaldehyde
Acetaldehyde
Acrolein
Sum of C2-C8 Carbonyls

Table with 4 columns: Specification, Results, Status. Row 1: Report mg / kg, 0.868, Reported; Row 2: 0.000, Reported; Row 3: 0.000, Reported; Row 4: 0.000, Reported

SECTION: 1.4 Volatile Organic Compounds (VOC's) CS-13398
24 hrs Uncovered @ 23°C / 50% RH Benzene

Table with 4 columns: Specification, Results, Status. Row 1: Report ug / g, 0.218, Reported

SECTION: 1.5 Semi Volatile Organic Compounds (SVOC's)
24 hrs Uncovered @ 23°C / 50% RH

Table with 4 columns: Specification, Results, Status. Row 1: Report ug / g, BDL - Below detection limitations based on a toluene surrogate, Reported

CERTIFIED BY: [Signature]
Dave Nichols Jr, Automotive Lab Technician

ISSUE DATE: 1-1-25

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 *.