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TEST REPORT

PRODUCT: FM 2454
SUPPORT: 1 MIL PET SS
SUBSTRATE: NDCT 5002C BLACK
CERT NO.: 251020 - 1252



NISSAN M8506 Class 2 No. 1

OEM Rev Date: Nov 22

Adhesive Requirements for Double Coated Tapes in Adhering Interior and Exterior Parts
DAT-21 Exterior Emblem Molding
Vertical

General Properties

TEST: **Storage Stability**

Peel Strength - 168 hrs @ 40°C

Shear Strength - 168 hrs @ 40°C

Specification

27.4 N / 25 mm

314 kPa

Results

49.1 CF

403.5 CF

Status

Pass

Pass

TEST: **Re-Adhesion**

Peel Strength - Primary, 30 sec @ 23°C

Peel Strength - Re-Adhesion, 24 hrs @ 23°C

Peel Strength - Secondary, 10 hrs @ 23°C

Specification

AF MF CF N / 25 mm

Results

12.5 AF

54.1 CF

50.1 CF

Status

Pass

Pass

Pass

TEST: **Adhesive Property**

30 seconds 5°C x 24 hr

Specification

> 80 %

Results

Not Tested

Status

Not Tested

TEST: **Adhesion Strength After Affixing**

Peel Strength - Initial, 30 Seconds @ 5°C

Peel Strength - Initial, 30 Seconds @ 23°C

Peel Strength - 30 mins @ 23°C

L Jig Holding Force, 30 sec @ RT - 2.0 kg @ 23°C

Specification

3.9 N / 25 mm

14.7 N / 25 mm

Reported N / 25 mm

0.5 hrs

Results

10.0 AF

11.7 AF

56.4 CF

5.6 AF

Status

Pass

Fail

Pass

Pass

TEST: **Room Temp Adhesion Performance**

Peel Strength - 24 hrs @ 23°C

Shear Strength - 24 hrs @ 23°C

L Jig Peel Strength - 30 sec @ 23°C

Shear Holding - 1.5 kg @ 23°C

Shear Holding - 4.0 kg @ 23°C

L Jig Holding Force, 1.5 hrs @ RT - 2.0 kg @ 23°C

L Jig Holding Force, 1.5 hrs @ RT - 4.0 kg @ 23°C

Specification

27.4 N / 25 mm

314 kPa

0.5 N / 25 mm

168 hrs

Reported

96 hrs

Reported

Results

58.5 CF

511 CF

127.6 AF

168.0 No Failure

40.7 CF

66.4 AF

6.4 AF

Status

Pass

Pass

Pass

Pass

Reported

Fail

Reported

TEST: **High Temp Adhesion Performance**

Peel Strength - 1.5 hrs @ 80°C, No Recovery

Shear Strength - 1.5 hrs @ 80°C, No Recovery

L Jig Peel Strength - 1.5 hrs @ 90°C, No Recovery

Shear Holding - 1.5 hrs 80°C Acclimation, 1.0 kg @ 80°C

Shear Holding - 1.5 hrs 80°C Acclimation, 2.0 kg @ 80°C

L Jig Holding Force - 1.5 hrs 80°C Acclimation, 0.5 kg @ 80°C

L Jig Holding Force - 1.5 hrs 80°C Acclimation, 2.0 kg @ 80°C

Specification

11.8 N / 25 mm

69 kPa

49 N / 25 mm

168 hrs

Reported

Results

49.2 CF

125.1 CF

199.2 CF

168.00 No Failure

0.26 CF

23.00 CF

1.98 CF

Status

Pass

Pass

Pass

Pass

Reported

Fail

Reported

TEST: **Low Temp Adhesion Performance**

Shear Strength - 1.5 hrs @ -40°C, No Recovery

L Jig Peel Strength - 1.5 hrs @ -40°C, No Recovery

L Jig Peel Strength - Weathering Resistance - 2000 hrs

Specification

1470 kPa

98 N / 25 mm

> 90 % of 0.5 N / 25 mm

Results

839.6 CF

212.7 CF

Not Tested

Status

Pass

Pass

Not Tested

TEST: **Endurance Capability**

Peel Strength - 168 hrs @ 90°C

Peel Strength - Warm Water, 168 hrs @ 40°C

Peel Strength - Chemical Resistance - Gas, 1 hr @ 23°C

Peel Strength - Chemical Resistance - Wax, 30 min @ 23°C

Specification

> 90 % of 27.4 N / 25 mm

> 60 % of 27.4 N / 25 mm

> 60 % of 27.4 N / 25 mm

> 50 % of 27.4 N / 25 mm

Results

43.8 CF

44.2 CF

53.8 CF

54.7 CF

Status

Pass

Pass

Pass

Pass

Shear Strength - 168 hrs @ 90°C

Shear Strength - Warm Water, 168 hrs @ 40°C

Shear Strength - Chemical Resistance - Gas, 1 hr @ 23°C

Shear Strength - Chemical Resistance - Wax, 30 min @ 23°C

Shear Strength - Weathering Resistance - 2000 hrs

> 90 % of 314 kPa

> 60 % of 314 kPa

> 50 % of 314 kPa

> 50 % of 314 kPa

> 90 % of 314 kPa

560.7 CF

537.0 CF

511.4 CF

630.7 CF

Not Tested

Pass

Pass

Pass

Reported

Not Tested

CERTIFIED BY:

David Nichols II, 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 *.