TEST REPORT

FT 3043

TPO

5 MIL UHMWPE



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221216 - 0951 CERT NO .:

GMW 16879 Type I Cycle M

OEM Rev Date: May 18

Performance Requirements of Ultra High Molecular Weight Polyethylene (UHMW PE) Tape

Type I material is UHMWPE film coated with a permanent acrylic PSA

ISO 8510-2

GMW3010*

GMW3010*

GMW3232*

GMW3235, Method A*

PRODUCT:

SUPPORT:

SUBSTRATE:

TAPE REQUIREMENTS:

PROPERTIES:

Table 1 Performance Requirements Liner Removal PROPERTIES:

Liner Removal, Initial @ RT

Peel Adhesion

Peel Adhesion, Aged, 72 hrs @ RT

Peel Adhesion, Humidity, 24 hrs @ 38°C / 95% RH

Peel Adhesion, Aged, 168 hrs @ 70°C

Cycles 2X, GMW 14124 Cycle M

23 hrs @ 40°C / 95% RH

1 hr @ RT 24 hrs @ 85°C 1 hr @ RT 4 hrs @ -30°C

1 hr @ RT

PROPERTIES: **Dynamic Shear** Dynamic Shear, Aged, 72 hrs @ RT

PROPERTIES: **Tensile Strength** Tensile Strength, Initial, Maximum Force

Tensile Strength, After 168 hr aging @ 70°C

Elongation

Elongation, Initial, @ Maximum Force

Elongation, After 168 hr aging @ 70°C

PROPERTIES: Fogging Fogging, 6 hrs @ 85°C, 38°C Cooling, 16 hrs @ RT

PROPERTIES: **Flammability**

Flammability, Initial, Component

ISO 8510-2 Specification

200 N/m

Specification 350 N/m

> 350 N/m 350 N/m

350 N/m

1545.2

Results

56.0

Results

1722.1

1827.7

1558.0

Results

34.8

32.0 Tear

Results

385.0

347.5

Pass

ACCREDITED

TESTING LABORATORY

Status

Pass

Status

Pass

Pass

Pass

Status

Pass

Status

Pass

Pass

Status

Pass

Pass

Status

Pass

Specification Results 172 Tear 200 kPa

Specification 15 MPa min

70 MPa max

Specification 150 % min

50 % min

Specification

< 100 mm / min

Specification 60 Units

Results 996

Status **Pass**

Results < B 25

Page 1 of 1

CERTIFIED BY:

PROPERTIES:

Dave Nichols Jr, Automotive Lab Technician

ISSUE DATE:

Original Test Date:

1-1-24

6-12-2018

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.