TEST REPORT

SA 1123



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SUPPORT: 5 MIL UHMWPE SUBSTRATE: PP

STD CERT NO.: 241112 - 0930



GMW 16879 TYPE I CYCLE M

OEM Rev Date: May 18

Performance Requirements of Ultra High Molecular Weight Polyethylene (UHMWPE) Tape

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

Initia

PRODUCT:

TAPE REQUIREMENTS:

Table 1 Performance Requirements

PROPERTIES: Liner Removal ISO 8510-2 Specification Results Liner Removal, Initial @ RT Specification 0.5 Pass

PROPERTIES: Peel Adhesion ISO 8510-2 Specification Results
Peel Adhesion, Aged, 72 hrs @ RT Status

Peel Adhesion, Aged, 72 hrs @ RT Pass

Peel Adhesion, Humidity, 24 hrs @ 38°C / 95% RH 350 N / m 1089.9 Pass

Peel Adhesion, Aged, 168 hrs @ 70°C 350 N/m 851.4 Pass

Cycles 2X, GMW 14124 Cycle M 350 N/m 377.4 Pass

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	GMW3010*	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
Dynamic Shear, Aged, 72 hrs @ RT			200 kPa	378.5	SP	Pass
PROPERTIES:	Tear Resistance	ISO 34-1, Method B*	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
Tear Resistance, Initial, Room Temp			2 kg	3.9	TEAR	Pass

PROPERTIES: Tensile Strength GMW3010* Specification Results Mode Status
Tensile Strength, Initial, Maximum Force 15 MPa min 38.8 TEAR Pass

Tensile Strength, After 168 hr aging @ 70°C

8 MPa max

38.5 TEAR

Pass

PROPERTIES: Elongation GMW3010* Specification Results Status
Elongation, Initial, @ Maximum Force 150 % min 603.1 Pass

Elongation, After 168 hr aging @ 70°C 50 % min 599.1 Pass

PROPERTIES: Coefficient of Kinetic ISO 8295 Specification Results Status

Initial Friction* ≤ 0.25 N/m Not Tested Not Tested

PROPERTIES: Fogging GMW3235, Method A Specification Results Status

Fogging, 6 hrs @ 85°C, 38°C Cooling, 16 hrs @ RT **60 Units** 100.0 **Pass**

PROPERTIES: Flammability GMW3232* Specification Results Status
Flammability, Initial, Component < 100 mm / min SE < B 25 Pass

CERTIFIED BY:

Dal Hofm

David Nichols II, Automotive Lab Technician

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