TEST REPORT



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PRODUCT: FT 1903

SUPPORT: **5 MIL UHMWPE**

SUBSTRATE: TPO

STD CERT NO .: 250219 - 0551

GMW 16879 TYPE I CYCLE M

OEM Rev Date: May 18

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

ACCREDITED

TESTING LABORATORY

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

TAPE REQUIREMENTS:

Table 1 Performance Requirements

Liner Removal ISO 8510-2 PROPERTIES: **Specification** Results **Status** Liner Removal, Initial @ RT 200 N/m 0.5 **Pass**

PROPERTIES: **Peel Adhesion** ISO 8510-2 **Specification** Results **Status** Peel Adhesion, Aged, 72 hrs @ RT 350 N/m 1116.3 **Pass**

Peel Adhesion, Humidity, 24 hrs @ 38°C / 95% RH 350 N/m 1186.5 **Pass**

Peel Adhesion, Aged, 168 hrs @ 70°C 350 N/m 207.1 Fail

Fail Cycles 2X, GMW 14124 Cycle M 350 N/m 214.5

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* **Specification** Results **Mode Status** SP Dynamic Shear, Aged, 72 hrs @ RT 364.7 **Pass** 200 kPa PROPERTIES: **Tear Resistance** ISO 34-1, Method B* **Specification Status** Results Mode

Tear Resistance, Initial, Room Temp 3.9 TEAR 2 kg **Pass**

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

TEAR Tensile Strength, After 168 hr aging @ 70°C 8 MPa max 38.5 **Pass**

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

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

PROPERTIES: **Coefficient of Kinetic** ISO 8295 Specification Results Status Friction* Initial ≤ 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**

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

CERTIFIED BY:

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