

# PERFORMANCE GUIDE

Represents Typical Values Only

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**FDD6919N**

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**2 mil White PET / MP690 / 3.2 mil**

## Description

**Product** FDD6919N is a 2 mil matte top-coated, white polyester with a durable and aggressive permanent acrylic adhesive and a 3.2 liner. This product is precise by 5,000' and ships on a 6" core as precise. Master material may specify 3" or 6" core.

*BS 5609 Compliant. This product conforms to BS 5609: 1986 Section 2 – 'Marine and Laboratory Performance of Label Base Materials' and BS 5609: 1986 Section 3 – 'Laboratory Performance of Printed Labels'.*

## Applications and End Uses

Designed for use in chemical drum warning and instructional labeling that contains critical information about safety and handling, nameplate, and durable equipment label applications. Excellent laser (toner fusion), impact, and flexo printability. **Not recommended for cut sheet laser printing.**

## Face

2 mil white polyester, matte topcoated for superior printability engineered to accept laser, dot matrix, and thermal transfer printing as well as conventional silk screen, flexographic and offset/letterpress inks as well as select digital UV inkjet and color laser presses. Features high strength, tear resistance, dimensional stability, and temperature resistance.

### Physical Properties Without Adhesive

Caliper, inches	0.002 (2 mils)	ASTM D-2103
Tensile, lbs./in.	44 MD 46 CD	TAPPI-494

## Adhesive

MP690 is a high performance, durable, permanent acrylic emulsion with aggressive initial tack, excellent ultimate adhesion, and mandrel hold. It is extremely chemical and solvent resistant and has very good adhesion to various high and low energy substrates.

### Physical Properties of Adhesive

Thickness, inches	0.001 +/- 10%	
Peel Adhesion, lbs./in.	2.9	PSTC-101A (30 min. applied)
<i>Temperature Ranges</i>		
Minimum Application	+50°F (10°C)	CTM #45 Curwood
Service Ranges	-40°F to +302°F (-40°C to +150°C)	Polyester Film Dry Surface
Loop Tack – Stainless Steel, lbs./in.	2.9	PSTC-16

## Liner

A semi-bleached, super-calendared kraft liner. Excellent for die cutting and stripping. The liner is coated with a release system designed for label dispensing. Primarily for roll-to-roll applications where a more demanding liner is needed.

Caliper, inches	0.0032 +/- 10%	TAPPI T-411
Basis Weight, lbs. (24" x 36"/500 sheets)	50 +/- 10%	TAPPI T-410

## Shelf Life

Product retains its performance and properties for two years from date of manufacture when stored at 72° F and 50% relative humidity.

This product complies with CONEG regulations.

All MACTac Roll Label products meet the requirements of the Clean Air Act of 1990.

**\* NOTE: Thermal transfer printing quality and bar code scannability are dependent upon the interworking of several elements; the ribbon, the printhead and the facstock. Please test all applications. Consult Mactac's Technical Marketing Department for guidelines regarding printer and ribbon compatibility.**

**CALL 1-800-548-3456 for additional product information**

## Performance Data

Typical peel value of 2 mil PET face applied to tested surface in lbs./in.

Surface	Initial	72 hours @ Room Temp.	72 hours @ 120° F.	24 hours @ 90° F. / 90% RH
Stainless Steel	3.0	5.9	6.8	1.5
Aluminum	3.2	5.8	6.3	3.7
Polypropylene	1.9	3.0	5.5	4.1
HDPE	2.5	5.7	4.1	4.1
LDPE	1.0	2.2	1.8	3.8
ABS	4.5	5.3	5.3	4.3
Polycarbonate	5.4	5.5	2.9	3.3

## Chemical Resistance

Typical peel value of 2 mil PET face applied to stainless steel and immersed in test chemicals for four hours, in lbs./in.

Chemical	Adhesion
Isopropyl Alcohol	4.6
Oil	6.4
Oil @ 250° F.	6.4
Water	4.3
Acid – pH 4	5.4
Base – pH 11	5.0
409® Cleaner	5.4
Toluene	2.5
Acetone	2.8
Brake Fluid	6.4
Gasoline	2.8
Diesel Fuel	5.8
Mineral Spirits	5.3
Hydraulic Fluid	6.3
Tide® Detergent	5.7
Kerosene	5.3
Heptane	4.9

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