PERFORMANCE GUIDE

Represents Typical Values Only

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FAB6914

Revised: 03/2022 CNS

1 mil Clear PET / MP690 / 3.2 mil SCK

Description		Applications and End Uses
Product	FAB6914 - 1 mil gloss top-coated, clear polyester with a durable and aggressive permanent acrylic adhesive and a 3.2 SCK liner. *Recognized for UL969 component labels. This product is UL Recognized for indoor and outdoor applications. For specific recognition, consult UL file MH12627.* *CUL (CSA C22.2 No. 0.15) recognized under UL file No. PGGU8.MH12627 Marking and Labeling System Materials Certified for Canada.*	Designed for use as an overlaminant in nameplate, durable equipment, and drum label applications. Excellent flexo and thermal transfer printability with most resin and wax/resin ribbons.

Face

1 mil clear polyester, specifically designed to act as an overlaminanting film.

Physical Properties Without Adhesive

Caliper, inches	0.001 (1 mils)	ASTM D-2103
Tensile, lbs./in.	50 MD 62 CD	TAPPI-494

Adhesive

MP690 is a high performance, high tack, durable, permanent acrylic emulsion with 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
Temperature Ranges		
Minimum Application	+50°F (10°C)	CTM #45 Curwood Polyester Film Dry Surface
Service Ranges	-40°F to +302°F (-40°C to +150°C)	
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 facestock. Please test all applications. Consult Mactac’s Technical Marketing Department for guidelines regarding printer and ribbon compatibility.***

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 @ 120º F.	24 hours @ 90º 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

Compliance Recognition: UL / cUL (CSA C22.2 No. 0.15)

Underwriters Laboratories, Inc.

Pressure-sensitive overlamination

Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I/O= Indoor & Outdoor)	Additional Conditions
	º F	º C	º F	º C		
Polyester	-9.4	-23	302	150	I/O	C,F1,G,K,O
Polypropylene	-9.4	-23	212	100	I/O	C,F1,G,K,O
Vinyl	-9.4	-23	176	80	I/O	C,F1,G,K,O

C – Occasional exposure to Cooking Oil (room temp).

F1 – Occasional exposure to Fuel Oil No. 1.

G – Occasional exposure to Gasoline splashing.

K – Occasional exposure to Kerosene.

O – Occasional exposure to Lubricating Oil.

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