

PERFORMANCE GUIDE

Represents Typical Values Only

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FJD6914 Revised: 03/2022 CNS

2 mil Reverse Void Silver Metalized PET / MP690 / 3.2 mil SCK

Description		Application	Applications and End Uses			
Product	FJD6914 - 2 mil gloss top-coated, re polyester with a durable and aggres adhesive and a 3.2 SCK liner used for When the label is removed from the splits from the polyester film leavin pattern showing undeniable eviden Recognized for UL969 component land Recognized for indoor and outdoor	Designed for use in nameplate, durable equipment and drum label tamper eviden applications. Excellent flexo and thermal transfer printability with most resin and wax/resin ribbons.				
	recognition, consult UL file MH1262		and a mark a half the	ota flavor and the moral		
Face	2 mil reverse void silver metalized polyester, topcoated for superior printability via flexo and thermal transfer. Features high strength, tear resistance, dimensional stability, and temperature resistance. Do no expose product to processing conditions above 240F for periods of 30 seconds or more.					
	Physical Properties Without Adhes	ive				
	Caliper, inches	0	.002 (2 mils)	ASTM D-2103		
	Tensile, lbs./in.	4	0 MD 60 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		
	Temperature Ranges Minimum Application Service Ranges Loop Tack – Stainless Steel, lbs./in.	+40°F (5°C) -40°F to +302°F (-40°C t 2.9	•	CTM #45 Curwood Polyester Film Dry Surface 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	5"/500 sheets)	50 +/- 10%	TAPPI T-410		
Shelf Life	Product retains its performance and and 50% relative humidity.	d properties for two years f	rom date of manu	facture when stored at 72°		

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	4.0	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

^{*}Breakaway of void will occur around 1 lb.

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, Inks: UL PGJI2

UL Recognized Thermal Transfer Ribbon

DNP "TR4070", "R510HF", "R300", "V300", "TR6075", "TR6070", "Signature Series Resin", "R550"; Datamax "SDR", "SDR-D", "SDR-5", "IQRES+" Resin Ribbon; ITW "B324"; Iimak "SP330" thermal transfer ribbon; ARMOR AXR7+; Zebra "5100", "5095" thermal transfer ribbon

Compliance Recognition: UL



Underwriters Laboratories, Inc.

	Minimum Maximum Temperature Temperature					
Substrates	° F	° C	° F	° C	(I=Indoor Only I/O= Indoor & Outdoor)	Additional Conditions
1. Acrylic Paint	-40	-40	302	150	I/O	C,F1,G,K,O
2. Alkyd Paint	-40	-40	302	150	I/O	C,F1,G,K,O
3. Aluminum	-40	-40	302	150	I/O	C,F1,G,K,O
4. Galvanized Steel	-40	-40	302	150	I/O	C,F1,G,K,O
5. Polyester Paint	-9.4	-23	302	150	I/O	C,F1,G,K,O
6. Polyester Powder Paint	-9.4	-23	302	150	I/O	C,F1,G
7. Polyurethane Powder Paint	-9.4	-23	302	150	I/O	C,F1,G,K
8. Porcelain	-40	-40	302	150	I/O	C,F1,G,K,O
9. Stainless Steel	-40	-40	302	150	I/O	C,F1,G,K,O
10. Acrylic Powder Paint	-40	-40	257	125	I/O	C,F1,G,K,O
11. Epoxy Powder Paint	-40	-40	257	125	I/O	C,F1,G,K,O
12. Melamine	-40	-40	212	100	I/O	C,F1,G,K,O
13. Nylon	-40	-40	212	100	I/O	C,F1,G,K,O
14. Phenolic	-40	-40	212	100	I/O	C,F1,G,K,O
15. Polycarbonate	-40	-40	212	100	I/O	C,F1,G,K,O
16. Unsat Thermoset Polyester	-40	-40	212	100	I/O	C,F1,G,K,O
17. ABS Plastic	-40	-40	176	80	I/O	C,F1,G,K,O
18. Epoxy	-40	-40	176	80	I/O	C,F1,G,K,O
19. Polyphenylene Oxide	-40	-40	176	80	I/O	C,F1,G,K,O
20. Polypropylene	-9.4	-23	176	80	I/O	C,F1,G,K,O
21. Polystyrene	-40	-40	176	80	I/O	C,F1,G,K,O
22. Polyvinyl Chloride	-40	-40	176	80	I/O	C,F1,G,K,O
23. Acrylic	-40	-40	140	60	I/O	C,F1,G,K,O
24. Polyethylene	-9.4	-23	140	60	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.

IMPORTANT NOTICE: The information given, and the recommendations made herein are based on our research and are believed to be accurate, but no guarantee of their accuracy or completeness is made. In every case, user shall determine before using any product in full scale production, or in any way, whether such product is suitable for user's intended use for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or fitness for a particular purpose, or any other warranty, express or implied. No representative of ours has any authority to waive or change the foregoing provisions, and no statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by the officers of seller and manufacturer. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement, or recommendation to practice any invention covered by any patent without authority from the owner of the patent. The following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.



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