

PERFORMANCE GUIDE

Represents Typical Values Only

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FFD6914N

Revised: 03/2022 CNS

2 mil Matte Silver Metalized PET / MP690 / 3.2 mil SCK

Description			Applications and End Uses				
Product	FFD6914N - 2 mil matte top-coate polyester with a durable and agge acrylic adhesive and a 3.2 SCK line	Designed for use in nameplate, durable equipment, and drum label applications. Excellent flexo and thermal transfer printability with mor resin and wax/resin ribbons.					
	Recognized for UL969 component UL Recognized for indoor and out specific recognition, consult UL fil PGGU2.MH12627 Marking and Lo Materials and PGJI2.MH26726 Pr						
	CUL recognized under UL file No. PGGU8.MH12627 Marking and Labeling System Materials Certified for Canada and PGJI8.MH26726 Printing Materials.						
Face	2 mil matte silver metalized polyester, topcoated for superior printability via flexo and thermal transfer. Features high strength, tear resistance, dimensional stability, and temperature resistance.						
	Physical Properties Without Adhesive						
	Caliper, inches	0.	0.002 (2 mils) ASTM D-210				
	Tensile, lbs./in.	40	0 MD 60 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 (30 min. ap			
	Temperature Ranges						
	Minimum Application	+50°F (10°C)		CTM #45 Curwood Polyester Film Dry Surface			
	Service Ranges	-40°F to +302°F (-40°C	C to +150°C)				
	Loop Tack –	2.9	PSTC-16				
	Stainless Steel, lbs./in.						
Liner	Stainless Steel, Ibs./in. A semi-bleached, super-calendard coated with a release system des where a more demanding liner is	igned for label dispensir					
Liner	A semi-bleached, super-calendard coated with a release system des	igned for label dispensir		r roll–to-			

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

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

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

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



Underwriters Laboratories, Inc.

	ers Laboratories, Inc. Minimum Maximum Temperature Temperature					
Substrates	• F	° C	° F	۰C	(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. Epoxy Paint	-40	-40	302	150	I/O	C,F1,G,K,O
5. Galvanized Steel	-40	-40	302	150	I/O	C,F1,G,K,O
6. Polyester Paint	-9.4	-23	302	150	I/O	C,F1,G,K,O
7. Polyester Powder Paint	-9.4	-23	302	150	I/O	C,F1,G,K,O
8. Polyurethane Powder Paint	-9.4	-23	302	150	I/O	C,F1,G,K,O
9. Porcelain	-40	-40	302	150	I/O	C,F1,G,K,O
10. Stainless Steel	-40	-40	302	150	I/O	C,F1,G,K,O
11. Acrylic Powder Paint	-40	-40	257	125	I/O	C,F1,G,K,O
12. Epoxy Powder Paint	-40	-40	257	125	I/O	C,F1,G,K,O
13. Melamine	-40	-40	212	100	I/O	C,F1,G,K,O
14. Nylon	-40	-40	212	100	I/O	C,F1,G,K,O
15. Phenolic	-40	-40	212	100	I/O	C,F1,G,K,O
16. Polycarbonate	-40	-40	212	100	I/O	C,F1,G,K,O
17. Unsat Thermoset Polyester	-40	-40	212	100	I/O	C,F1,G,K,O
18. ABS Plastic	-40	-40	176	80	I/O	C,F1,G,K,O
19. Ероху	-40	-40	176	80	I/O	C,F1,G,K,O
20. Polyphenylene Oxide	-40	-40	176	80	I/O	C,F1,G,K,O
21. Polypropylene	-9.4	-23	176	80	I/O	C,F1,G,K,O
22. Polystyrene	-40	-40	176	80	I/O	C,F1,G,K,O
23. Polyvinyl Chloride	-40	-40	176	80	I/O	C,F1,G,K,O
24. Acrylic	-40	-40	140	60	I/O	C,F1,G,K,O
25. Polyethylene	-9.4	-23	140	60	I/O	C,F1,G,K,O

Compliance Recognition, Inks: UL PGJI2

UL Recognized Thermal Transfer Ribbon

Label materials suitable for additional printing using one or more of the following inks:

DNP "TR4070", "R510HF", "R300", "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

UL Recognized Flexo Inks

ACTega WIT Versifilm Plus Series (Water based), ACTega WIT Optafilm Series (Water based) and ACTega WIT Pharmaflex UV ULF (UV Ink System), Environmental Inks Film III Series, Flint Group Narrow Web Flexocure FORCE (UV Ink System) and Flint Group Hydrofilm ACE (Water based) Series

UL Recognized Digital Inks

EFI "Jetrion Series" UV Ink Set (Black, Blue, Red), INX Digital International NWUV UV Inkjet Series (All Colors)



	(I=Indoor Only	Additional		
Substrates	٩F	° C	I/O= Indoor & Outdoor)	Conditions
1. Metals	302	150	I/O	C,G,K,O
2. Electrostatic coated metal A	302	150	I/O	C,G,K,O
3. Electrostatic coated metal B	257	125	I/O	C,G,K,O
4. Electrostatic coated metal C	257	125	I/O	C,G,K,O
5. Electrostatic coated metal D	302	150	I/O	C,G,K,O
6. Plastic Group I	212	100	I/O	-
7. Plastic Group II	176	80	I/O	-
8. Plastic Group III	176	80	I/O	-
9. Plastic Group IV	176	80	I/O	-
10. Plastic Group V	176	80	I/O	-
11. Plastic Group VI	176	80	I/O	-
12. Plastic Group VII	176	80	I/O	-
13. Plastic Group VIII	176	80	I/O	-
14. Porcelain (PRCLN)	302	150	I/O	C,G,K,O

Compliance Recognition, Inks: UL PGJI8

cUL Recognized Thermal Transfer Ribbon

limak "SP330" thermal transfer ribbon, ARMOR AXR7+

cUL Recognized Digital Inks

INX Digital International NWUV UV Inkjet Series (All Colors), EFI Jetrion UV Inkjet

- 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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