

PERFORMANCE GUIDE

Represents Typical Values Only

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BDE6914 Revised: 01/2024 LEL

2.6 mil White UV BOPP/ MP690 / 3.2 mil SCK

Description			Applicatio	ns and E	nd Uses		
Product	BOPP with a durable and aggressive permanent acrylic dura adhesive and a 3.2 SCK liner. batte flexo			Designed for use in nameplate, lurable equipment and drum and pattery label applications. Excellent lexo and thermal transfer printability with most resin and wax/resin ribbons.			
	applications. For specific recognition, consult UL file MH12627 and cUL file MH26726.						
	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'.						
Face	2.6 mil UV resistant, white BOPP, topcoated for superior printability via flexo and thermal transfer. Features up to two-year outdoor weather resistance.						
	Physical Properties Without Adh Caliper, inches Tensile, lbs./in.	(0.0026 (2.6 mil 40 MD 36 CD	s)	ASTM D-2103 TAPPI-494		
Adhesive							
	Physical Properties of Adhesive Thickness, inches	0.001 +/- 10%					
	Peel Adhesion, lbs./in.	2.9		CTM-8 (30 min. applied) Reference: PSTC-101A			
	Temperature Ranges Minimum Application Service Ranges	+50°F (10°C) -40°F to +257°F (-40°C to +125°C		CTM #45 Curwood Polyester Film Dry Surface			
	Loop Tack – Stainless Steel, lbs./in.	2.9		PSTC11			
Liner	A semi-bleached, super-calendared kraft liner. Excellent for die cutting and stripping. The lin coated with a release system designed for label dispensing. Primarily for roll-to-roll application where a more demanding liner is needed.						
	Caliper, inches Basis Weight, lbs. (24″ x 3	36"/500 sheets)	0.0032+/- 10 50 +/- 10%	%	TAPPI T-411 TAPPI T-410		
Shelf Life	One year when stored at 72° F an		20.7 20.0				

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

Underwriters Laboratories, Inc. BDE6914 2.6M WH UV BOPP TC/MP690-2

Underwriters Laboratories, Inc. BDE6914 2.6M WH UV BOPP TC/MP690-2 Minimum Maximum						
	Temperature		Temperature			
Substrates	۰F	°C	°F	°C	(I=Indoor Only I/O= Indoor & Outdoor)	Additional Conditions
Acrylic Paint	-40	-40	212	100	I/O	C,O
2. Alkyd Paint	-40	-40	212	100	I/O	С
3. Aluminum	-40	-40	212	100	I/O	C,O
4. Epoxy Paint	-40	-40	212	100	I/O	C,O
5. Galvanized Steel	-40	-40	212	100	I/O	C,O
6. Polyester Paint	-40	-40	212	100	I/O	C,O
7. Polyester Powder Paint	-40	-40	212	100	I/O	C,O
8. Polyurethane Powder Paint	-40	-40	212	100	I/O	C,O
9. Porcelain	-40	-40	212	100	I/O	C,O
10. Stainless Steel	-40	-40	212	100	I/O	C,O
11. Acrylic Powder Paint	-40	-40	212	100	I/O	C,O
12. Epoxy Powder Paint	-40	-40	212	100	I/O	C,O
13. Melamine	-40	-40	212	100	I/O	C,O
14. Nylon	-40	-40	212	100	I/O	C,O
15. Phenolic	-40	-40	212	100	I/O	C,O
16. Polycarbonate	-40	-40	212	100	I/O	C,O
17. Unsat Thermoset Polyester	-40	-40	212	100	I/O	C,O
18. ABS Plastic	-40	-40	176	80	I/O	C,O
19. Ероху	-40	-40	176	80	I/O	C,O
20. Polyphenylene Oxide	-40	-40	176	80	I/O	C,O
21. Polypropylene	-9.4	-23	176	80	I/O	C,O
22. Polystyrene	-40	-40	176	80	I/O	C,
23. Polyvinyl Chloride	-40	-40	176	80	I/O	C,O
24. Acrylic	-40	-40	140	60	I/O	C,O
25. Polyethylene	-9.4	-23	140	60	I/O	C,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.

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



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Substrates	٥F	° C	(I=Indoor Only I/O= Indoor & Outdoor)	Additional Conditions
1. Metals	212	100	I/O	C,O
Electrostatic coated metal A	212	100	I/O	C,O
3. Electrostatic coated metal B	212	100	I/O	C,O
Electrostatic coated metal C	212	100	I/O	C,O
5. Electrostatic coated metal D	212	100	I/O	C,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)	212	100	I/O	C,O

Compliance Recognition, Printing Materials: UL PGJI2 / cUL PGJI8

UL Recognized Thermal Transfer Ribbon

DNP (Previously Sony Chemicals) TR6075 Resin Ribbon, DNP R300 Resin Ribbon, DNP V300 Ribbon, DNP TRX-55 Wax-Resin Ribbon, Datamax PGR Wax-Resin Ribbon, Datamax SDR-D Resin Ribbon, and Datamax IQMID+ Wax-Resin Ribbon, Fuji Copian FTX 308 Resin Ribbon, ITW M95/B128 Wax-Resin Ribbon, Iimak SP330, ARMOR AXR7+

UL Recognized Digital Inks

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

Compliance Recognition, Marking & Labeling Materials: UL PGGU2 / cUL PGGU8

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

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