

Labels

Order code	Manufacturer code	Description
37-1780	n/a	SILVER A4 QUICK-LASER LABEL(10 PACK)
37-1782	n/a	WHITE A4 QUICK-LASER LABEL(10 PACK)
37-1784	n/a	YELLOW A4 QUICK-LASER LABEL(10 PACK)
37-1786	n/a	SILVER A4 QUICK LASER LABEL(50 PACK)
37-1788	n/a	WHITE A4 QUICK-LASER LABEL(50 PACK)
37-1790	n/a	YELLOW A4 QUICK-LASER LABEL(50 PACK)

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The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

Quick-Laser – Type 1 – Silver

Computer Imprintable Sheet Polyester Labels

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Description

Quick-Laser Type 1 is a silver polyester label stock with a special matt surface suitable for the production of labels via Laser printers. Supplied on a 147g / M² Polycoated liner for easy sheet processing

Features

- Toner receptive matt coating increases toner adhesion and durability
- #300 “Hi-Strength” Acrylic adhesive, suitable for a wide range of substrates including low surface energy materials
- Polyester film providing good durability and chemical resistance.
- Uniform calliper Polycoated Kraft Liner provides excellent lay-flat properties.

Application

- Designed specifically for panel making and labelling.
- Names plates and rating plates.
- Bar Code labels.

Average Physical properties

#300 “Hi-Strength” Acrylic adhesive

Adhesion: Dynamic 180° peel, ASTM D-3330

Substrate:	10 min dwell 72 hour R.T. Dwell	
	M/10mm	N/.10mm
Stainless Steel	6.8	8.2
ABS	5.8	6.0
Polypropylene	4.9	5.9

Environment Performance

Chemical Resistance	Edge Penetration	Appearance
10W-30 oil @ 121°C	Less than 2.4mm	No change
Petrol at R.T	Less than 4.8mm	No change
Brake Fluid	Negligible penetration	No change
50 /50 Water/ Glycol solution @ 93°C	Negligible penetration	No change
Wetting agent Solution @ 93°C	Negligible penetration	No change

Temperature Resistance

24 Hour exposure: No change noted in 50mm x 50mm sample after conditioning except slight yellowing of the matt surface at the elevated temperature.

Minimum temperature – 40°C

Maximum temperature – 150°C

Water and Humidity Resistance

24 Hour exposure 50mm x 50mm sample adhered to Stainless Steel panels

Condition	Edge penetration	Appearance
Water immersion @ 22°C	None	No change
35°C and 95% R.H.	None	No change

Face stock:

Quick-Laser's polyester films are used. The matt surface has been specifically formulated to accept toner from laser printers. Typical product performance shows no blistering, wrinkling, loss of legibility or colour change after:

a) 96 hours exposure into 100% R.H and 38°C

b) 7 days @ 110°C (230°F)

c) 5 cycles of 30 minutes @ 121°C (250°F), 15 minutes @ room temperature, 30 minutes @ 29°C (-20°F) and 15 minute @ room temperature.

d) 4 hours immersion in

1. Engine Oil @ 121°C (250°F)
2. Engine Coolant @ 93°C (200°F)
3. Petrol @ room temperature
4. Windscreen washer solution @ room temperature
5. Wetting agent @ 93°C (200°F)
6. Brake Fluid : room temperature

Shelf Life: Minimum two year under normal storage conditions of 22°C and 50% relative humidity

Application Recommendations:

Clean dry substrate – many surfaces contain dust, processing oils, fingerprints or an oxidising layer.

Temperature of substrate should be 10°C or above. For best results the substrate should be at room temperature. Substrates can be pre heated. This is typically done for surfaces below 10°C

Label contact pressure – more rub down pressure will increase the immediate bond. Firm rub down forces the adhesive to “flow” into the cracks and crevices of the substrate thereby achieving more intimate contact between the adhesive and the surface.



MEGA ELECTRONICS LTD.

Mega House, Grip Industrial Estate, Linton, Cambridge, England. CB1 6NR

Telephone: +44 (0) 1223 893900

Fax No: +44 (0) 1223 893894

Email: sales@megauk.com

web: www.megauk.com

Quick-Laser – Type 2 – White Type 3 – Yellow, Red, Blue & Green

Sheet-fed Laser Label Stocks

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Product	Face Stock	Adhesive	Liner
Type 2 / 3	2.3 mil (58 microns) Matte White Polyester	1.0 mil (25 microns) HP-395 Acrylic	4.6 mil (117 microns) 78# Densified Kraft

Features	Applications
<ul style="list-style-type: none"> • Face-stock provides excellent toner anchorage • HP-395 acrylic adhesive bonds to a wide variety of substrates • Both lay-flat liners are designed for sheet-fed laser printers and are compatible with HP LaserJet III and IV series printers and QMS 'Magicolor' CX (transparency mode). 	<ul style="list-style-type: none"> • Chemical drum labelling • Fixed asset labelling • Durable goods identification • Serial Number Plates • Rating Labels. • Control Panels.

Physical Properties

(Typical values based on testing of over 3 lots – not for specification use).

Test Condition: Tensile tester: 12 in/min., 4 inch film length.

<i>Min. Application Temperature:</i>	40 °F (4 °C)
<i>Tensile Elongation:</i>	> 10%
<i>Tensile Strength:</i>	2.3 lb/in.
<i>Adhesion:</i>	180 degree peel (ASTM 3330)

<i>Substrate</i>	<i>10 Min. dwell Oz./In. N/100mm</i>	<i>3 days at R.T. Oz./In. N/100mm</i>
Stainless Steel	41	45
ABS	39	42
Polypropylene	18	20
LINER RELEASE: 180 DEGREE LINER REMOVAL FROM FACE-STOCK		

<i>Product</i>	<i>90 in/ min.</i>	<i>300 in. min.</i>
Type 2 / 3	20 grams / in.	29 grams./ in.
FACE-STOCK RELEASE: 190 DEGREE FACE-STOCK REMOVAL FROM LINER		

<i>Product</i>	<i>12 in. / min.</i>
Type 2 / 3	12 grams./ in



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web: www.megaug.com

Environmental Performance

Immersion Results ASTM-3330

The properties defined are based on four hour and three day immersions at room temperature, unless otherwise noted. The label samples were applied to aluminium panels and painted metal drum panels 24 hours prior to immersions. The labels were evaluated for 180 degree peel adhesion (ASTN-3330) and edge penetration one hour after removal from the test liquid.

<i>Immersion at Room Temperature</i>	<i>Peel Adhesions 12in. / min.</i>		<i>Edge Penetration mm</i>
	<i>Types 2 / 3</i>		<i>Types 2 / 3</i>
	<i>Oz. / in/</i>	<i>N/100mm</i>	
Aluminium Panels			
Four Hours			
Isopropyl Alcohol	28	30	0.36
Acetone	20	22	4.5
Mineral Spirits	20	22	2.75
Gasoline	12	13	5.25
10W-40 Motor Oil	27	29	0.25
DI Water	29	31	0.25
Salt Water	30	33	0.0

<i>Immersion at Room Temperature</i>	<i>Peel Adhesions 12in. / min.</i>		<i>Edge Penetration mm</i>
	<i>Types 2 / 3</i>		<i>Types 2 / 3</i>
	<i>Oz. / in/</i>	<i>N/100mm</i>	
Three Days			
Isopropyl Alcohol	24	26	4.0
Acetone	0.0	0.0	100%
Mineral Spirits	2.3	2.5	100%
10W-40 Motor Oil	33	36	1.0
DI Water	34	37	0.0
Salt Water	30	33	1.0

<i>Painted Metal Drum Panels</i>	<i>Peel Adhesions 12in. / min.</i>		<i>Edge Penetration mm</i>
	<i>Types 2 / 3</i>		
	<i>Oz. / in.</i>	<i>N /100mm</i>	
Four Hours			
Isopropyl Alcohol	18	20	2
Acetone	19	21	4
Mineral Spirits	15	16	4
Three Days			
DI Water	11	12	2
Salt Water	11	12	2

<i>Temperature Resistance</i>	300 °F (149°C) for 24 hours: Slight colour change to Off White -40°F (-40°C) for 24 hours: No Change.		
<i>Shelf Life:</i>	Two years from date of manufacture of material if properly stored at 72°F (22°C) and 50% relative humidity		
<i>Humidity Resistance:</i>	100°F (38°C) and 100% relative humidity for 24 hours: Slight colour change to Off White.		
ACCELERATED AGING (ASTM1-77) 96 HOURS AT 150°F. 80% R.H.			
		<i>Liner Release</i>	<i>90 deg. Face-stock Release</i>
<i>Product:</i>	<i>90 in/ / min.</i>	<i>300 in/ / min.</i>	<i>12 in/ min.</i>
Types 2 / 3	37 grams / in	59 grams. / in.	14 grams. / in.
NOTE : NO COLOUR CHANGE			
<i>180 deg. Peel Adhesion</i>			
	<i>Substrate</i>	<i>12 in. / min.</i>	
Types 2 / 3	Stainless Steel	36 oz/ / in. 39 N/ 100mm	

Processing

This label stock is compatible with HP LaserJet III Si printer.

Use label stock in environments of 70°F (21°C) and 50% relative humidity.

Poly bag sheets after converting the label stock. Keep the laser label stock in polyethylene (LDPE) bags until imaging:

Fan all edges of sheets prior to laser printing.

Use the straightest printing path when printing laser label stock to avoid jamming of sheets.