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## LM, LE and LEB Laser Printable Polyester Labels on Sheet

### Technical Datasheet

TTDS-069 Revision 3 - August 2019

**LM, LE and LEB are metalized, white, and yellow polyester labels with a permanent acrylic adhesive and a special top coat designed specifically for use with laser printers.**

LM and LE are metalized and white Polyester labels in US sheet format (8.5 x 11.0 inches). They are ideal for bar coding, rating plates and general labelling applications, requiring high durability labels with good resistance to a variety of industrial fluids.

LEB labels are white, silver and yellow Polyester labels supplied on a European A4 sheet format (210 x 297 mm), designed for bar coding, name plates, equipment labels and general label applications. LEB's have good resistance to abrasion, oil, industrial chemicals and fluids..

# LM, LE AND LEB, LASER PRINTABLE POLYESTER LABELS

## Features

- Laser printable
- High durability and tear strength
- Designed to withstand exposure to oil, industrial chemicals and fluids.

## Temperature Rating

- Service Temperature  
-40°C to +150°C ( -40°F to +302°F)
- Min. Application Temperature: 10°C (50°F)

## Applications

- Ideal for bar coding, PCB and component labeling
- General labeling applications
- Industrial and Electrical applications

## Design for Environment

- Further information and a downloadable declaration covering RoHS and REACH compliance can be found at the TE Product Compliance Support Centre:

<http://www.te.com/usa-en/utilities/product-compliance.html>

## Specifications / Approvals

### Industry

UL File MH17292 - PGJ12 certification, for indoor use only

## Shelf Life

2 years when following good commercial storage practice detailed below

## Storage

Product should be stored in the original packaging, with any plastic covers which were included during shipping. Store out of direct sunlight in a clean, dry, dust free, environment. Product should not be stored outside of the designed storage temperature, which is 20 to 25 °C (68°F to 77°F), 40 to 50 % RH.



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**Technical Performance**

	Requirement	Results
<b>Print Permanence</b>		
Marking of Electrical Insulating Materials, SAE AS 5942	Legible after 50 rubs 1kg weight with an eraser	Pass
<b>Fluid Exposure</b>		<b>Printed legend</b>
<ul style="list-style-type: none"> <li>IPA Isopropyl Alcohol</li> <li>IRM 902</li> <li>MIL-H-83282</li> <li>Diesel Fuel</li> <li>Kilfrost DF plus</li> <li>Tap water</li> <li>5% Salt solution</li> <li>Detergent (1% Teepol)</li> <li>WD-40 lubricant</li> </ul>	TE doc 109-121012, 24 hours immersion at 23°C followed by 20 rubs with cloth, minimum print contrast 3*, legible  *Print contrast as defined in TE doc. 411-121002	Pass Pass Pass Pass Pass Pass Pass Pass Pass
<b>Adhesion to FTM1 (180°)</b>		<b>Typical Peel force (N/25mm (oz/in.))</b>
<b>Test surface:</b>	FTM1 (180°)	<b>20min Dwell      72hr Dwell</b>
<ul style="list-style-type: none"> <li>Stainless steel</li> <li>Glass</li> <li>Aluminium</li> <li>Polypropylene</li> <li>Tufnol</li> <li>Adhesive to Adhesive</li> </ul>		11 (41.6)      18 (64.3) 12 (43.3)      20 (72.8) 14 (51.5)      16 (59.4) 1 (5.0)          3 (10.2) 13 ( 47.2)      17 (63.4) 6 (22.7)        9 (33.2)

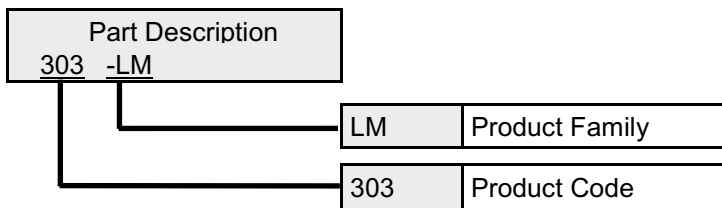
**Typical Label Thickness**

- Label (including adhesive): 0.07 mm / 0.0028 inches
- Liner: 0.166 mm / 0.0065 inches

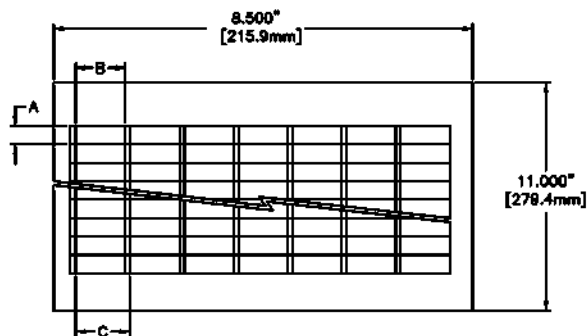
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Where possible, TE have tested product as a finished item, including the print. Operational tests are followed by an assessment of mark adherence to validate fit, form and function.

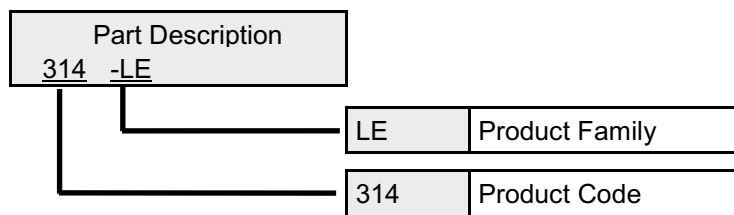




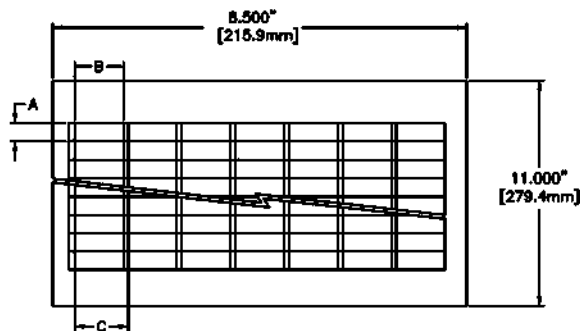
Ordering Description	Labels per sheet	Labels across	Label Width A (mm) (inches)	Label Height B (mm) (inches)	Horizontal Repeat C (mm) (inches)
303-LM	304	8	20.30 0.800	6.40 0.250	25.40 1.000
304-LM	152	8	20.30 0.800	12.70 0.500	25.40 1.000
305-LM	175	7	25.40 1.000	9.50 0.375	27.90 1.100
307-LM	133	7	25.40 1.000	12.70 0.500	27.90 1.100
308-LM	60	5	38.10 1.500	19.10 0.750	40.60 1.600
318-LM	40	4	50.80 2.000	25.40 1.000	N/A N/A
319-LM	10	2	76.20 3.000	50.80 2.000	88.90 3.500
325-LM	1	1	215.9 8.500	279.4 11.000	N/A N/A



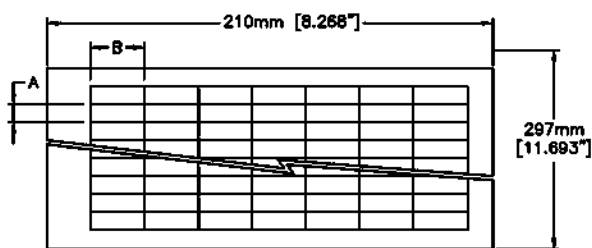
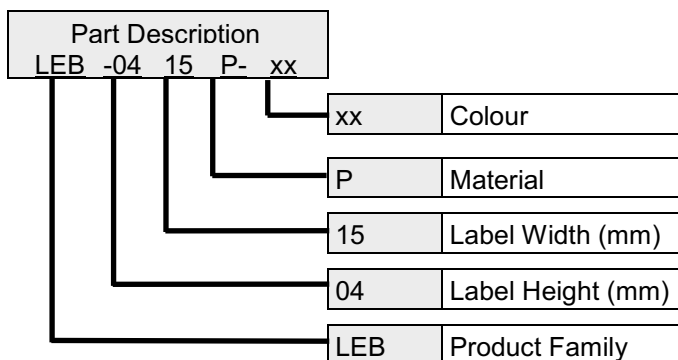
Ordering Information - LM, US sheet format: 8.5 x 11.0 inches (215.9 x 279.4 mm), colour: silver



Ordering Description	Labels per sheet	Labels across	Label Width A (mm) (inches)	Label Height B (mm) (inches)	Horizontal Repeat C (mm) (inches)
314-LE	400	16	9.50 0.375	9.50 0.375	12.70 0.500
301-LE	480	10	16.50 0.650	5.10 0.200	20.30 0.800
303-LE	304	8	20.30 0.800	6.30 0.250	25.40 1.000
304-LE	152	8	20.30 0.800	12.70 0.500	25.40 1.000
309-LE	266	7	25.40 1.000	6.30 0.250	27.90 1.100
305-LE	175	7	25.40 1.000	9.50 0.375	27.90 1.100
307-LE	133	7	25.40 1.000	12.70 0.500	27.90 1.100
310-LE	190	5	38.10 1.500	6.30 0.250	40.60 1.600
308-LE	60	5	38.10 1.500	19.10 0.750	40.60 1.600
318-LE	40	4	50.80 2.000	25.40 1.000	N/A N/A
319-LE	10	2	76.20 3.000	50.80 2.000	88.90 3.500
325-LE	1	1	215.90 8.500	279.40 11.000	N/A N/A



Ordering Information - LE, US sheet format: 8.5 x 11.0 inches (215.9 x 279.4 mm), colour: white



Product Description	Labels per sheet	Labels across	Label Width A (mm) (inches)	Label Height B (mm) (inches)
LEB-0608...	1081	23	8.0 0.315	6.0 0.236
LEB-0415...	792	12	15.24 0.600	4.23 0.167
LEB-0615...	528	12	15.24 0.600	6.35 0.250
LEB-0619...	396	9	19.0 0.748	6.0 0.236
LEB-0636...	220	5	35.56 1.400	6.35 0.250
LEB-0818...	330	10	17.78 0.700	8.47 0.333
LEB-0820...	315	9	20.0 0.787	8.0 0.315
LEB-0825...	231	7	25.4 1.000	8.47 0.333
LEB-0851...	99	3	50.8 2.000	8.47 0.333
LEB-0876...	66	2	76.2 3.000	8.47 0.333
LEB-0884...	66	2	83.82 3.300	8.47 0.333
LEB-0916...	330	11	16.0 0.630	9.0 0.354
LEB-0920...	270	9	20.0 0.787	9.0 0.354
LEB-1318...	220	10	17,78 0.700	12.7 0.500
LEB-1325...	154	7	25.4 1.000	12.7 0.500
LEB-1336...	110	5	35.56 1.400	12.7 0.500
LEB-2156...	39	3	55.88 2.200	21.17 0.833
LEB-2540...	44	4	40.0 1.575	25.0 0.984
LEB-5320...	45	9	20.0 0.787	53.0 2.087

Ordering Information - LEB, A4 sheet format: 210 x 297 mm (8.268 x 11.693 inches)  
Colours: white (P-9), silver (P-8A), yellow (P-4)

## Printer Information

Printers: Monochrome and colour Laser Jet printers were used for technical performance testing.

Monochrome: Samsung SL-M2026W A4 Mono Wireless Laser Printer.

Colour Laser jet printer: HP M452nw LaserJet Pro Colour Printer.



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