

# 3M™ Portable Labeler

## Refill Cartridge PLP

Polyester Tape for use in 3M Portable Labelers PL100, PL150, PL200, PL300

**Data Sheet**

**August 2012**

**Description** 3M™ Portable Labeler Refill Cartridge PLP is a 5-mil polyester tape for thermal transfer printing. It is formulated with an acrylic adhesive. The tape is available in clear, white, and metallic colors with 1/4, 3/8, 1/2, 3/4 and 1 inch widths. It may be used outdoors and is halgen free.

**Applications** The tape is typically used for inventory marking as well as for adhesion onto rough surfaces.

**Agency and Certifications** UL Recognized 3M File# MH48731  
UL Standard# 969 for Marking and Labeling Systems

**Typical Properties**

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

Property (Test Method)	Unit	Value	
<b>General</b> (Micrometer) Total thickness	Micron	135 ± 10%	
<b>Adhesive Properties</b> (PSTC-1, modified for 72 hrs)	N/25mm	<b>24 Hrs</b>	<b>72 Hrs</b>
To stainless steel		23	26
To glass		7	16
To PVC		19	22
To textured ABS		12	19
To powder coated steel		12	13
To steel computer casing		12	14
To polyethylene		15	19
<b>UV Light Stability of Label</b> 30 days with UV light in Suntester (corresponds with 1 year real-life exposure)	No visible effect on text or background		
<b>UV Light Stability of Adhesive</b> 30 days with UV light in Suntester (corresponds with 1 year real-life exposure)	No loss of adhesive properties		
<b>Chemical Resistance of Text Printed in PL300</b> (Crockmeter, 900g weight/arm)			
Fuel	30x	Slight print removal	
Gasoline	30x	No visible effect	
Isopropyl Alcohol	30x	No visible effect	
Ethanol	30x	Slight print removal	
Water	30x	No visible effect	
Ethylacetate	5x	Printing gone	
<b>Abrasion Resistance of Text Printed in PL300</b> (Crockmeter, 900g weight/arm)			
Pencil Erasure	30x	No visible effect	
Polystyrene Pin	30x	No visible effect	
Sandpaper	30x	Moderate print removal	

# 3M™ Portable Labeler Refill Cartridge PLP

## Typical Properties, *continued*

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

Property (Test Method)	Value
<b>Temperature Stability</b> Application temperature	Room temperature
Long Term High Service Temperature 30 days @ 90°C (194°F) 30 days @ 120°C (248°F)	No visible effect No visible effect
Long Term Low Service Temperature 30 days @ -18°C (0°F)	No visible effect
Short Term High Service Temperature 5 minutes exposure	No visible effect to tape up to 170°C (338°F); slight shrinkage of tape at 180°C (356°F); moderate shrinkage of tape at 210°C (410°F), but tape still legible and functional
<b>Humidity Resistance of Label</b> 30 days @ 45°C (113 °F), 85 % R.H.	No visible effect on text and background.
<b>Adhesion Onto Rough Surfaces</b> 30 days on computer housing	No loss of adhesive properties

## Shelf Life & Storage

This product has an 18-month shelf life from date of shipment when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

## Availability

Please contact your local distributor; available from [3M.com/electrical](http://3M.com/electrical) [Where to Buy] or call 1-800-245-3573.

Dymo is manufacture of labelers

## Important Notice

Before utilizing any of 3M's products, you should determine the suitability of the product for your intended use. You assume all risks and liability associated with such use.

## Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and for a period of 30 days from the time of purchase. If this product is defective, your exclusive remedy shall be, at 3M's option, to replace the 3M product or refund the purchase price. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

3M is a trademark of 3M Company.



## Electrical Markets Division

6801 River Place Boulevard  
Austin, TX 78726-9000  
800.245.3573  
Fax: 800.245.0329  
[www.3m.com/electrical](http://www.3m.com/electrical)

Please recycle  
© 3M 2012 All rights reserved  
78-8129-9264-8-B