

3M™ Portable Labeler Refill Cartridge PLFN

Flexible Nylon Tape For use in the PL100, PL200, PL300 Printers

Data Sheet

May 2010

Description 3M™ Portable Labeler Refill Cartridge PLFN is a 9-mil nylon coated fabric tape for thermal transfer printing. It is formulated with a permanent acrylic adhesive. The tape exists in white and yellow with availability in 1/2, 3/4, and 1 inch widths. It is not recommended for outdoor usage. This tape is halogen free.

Applications The tape is typically used for identifying electrical cables and wires, as well as to adhere to curved surfaces.

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	
General (Micrometer)			
Total thickness	Micron	230 ± 10	
Adhesive Properties (PSTC-1)	N/25mm	24 Hrs	72 Hrs
To stainless steel		12	15
To glass		18	20
To PVC		15	20
To textured ABS		8	12
To powder coated steel		16	17
To steel computer casing		14	17
To polyethylene		14	15
Flagging Properties			
Flagging around electrical cables (∅ 3.6 mm)	No flagging		
Flagging around electrical cables (∅ 8 mm)	No flagging		
Flagging around steel bar (∅ 14 mm)	No flagging		
Wrapping Properties			
Wrapping around electrical cables (∅ 3.6 mm)	Perfect wrapping		
Wrapping around electrical cables (∅ 8 mm)	Perfect wrapping		
Wrapping around steel bar (∅ 14 mm)	Perfect wrapping		
Chemical Resistance of Text Printed in PL300 (Crockmeter, 900g weight/arm)			
Fuel	30x	Severe print removal	
Gasoline	30x	Moderate print removal	
Isopropyl Alcohol	30x	Printing gone	
Ethanol	30x	Printing gone	
Water	30x	Slight print removal	
Ethylacetate	5x	Printing gone	
Abrasion Resistance of Text Printed in PL300 (Crockmeter, 900g weight/arm)			
Pencil Erasure	30x	No visible effect	
Polystyrene Pin	30x	No visible effect	
Sandpaper	30x	Slight print removal	

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Typical Properties,
continued

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Property	Value
UV Light Stability of Label 30 days with UV light in Suntester (corresponds with 1 year real-life exposure)	No visible effect on text and background
Temperature Stability Application temperature Long term high service temperature 30 days @ 90°C (194°F) 30 days @ 120°C (248°F) Long Term low service temperature 30 days @ -18°C (0°F) Short Term High Service Temperature 5 minute exposure	Room temperature A slight yellowing of the background A slight yellowing of the background No visible effect No visible effect to tape up to 180°C (356°F); slight shrinkage of tape at 210°C (410°F), slight discoloration, print still legible, but los of adhesive properties; label not functional anymore
Humidity Resistance of Applied Label 30 days @ 40°C (104°F), 95% R.H.	No visible effect

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 [Where to Buy] or call 1-800-245-3573.

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.

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