

18900 Panduit Drive Tinley Park, IL 60487

Customer Service: 800-777-3300

TDS: Effective Date: Revision: GMPO6-LASER 17Jul12

Self-Laminating Clear Polyolefin Film - Laser

This specification is intended to outline the physical and chemical properties of *PANDUIT*'s pressure sensitive self-laminating clear polyolefin material and include the following part numbers and printable material identifiers:

Part Number Prefixes				
LJSL*-PO3-*				

Printable Material Suffixes			
FAL			

PRODUCT SPECIFICATIONS:

Description: Material is RoHS compliant (European Union directive 2002/95/EC).

Material is a corona treated, flexible, matte clear polyolefin film with a pressure sensitive adhesive. This material is used in a self-laminating

format for wire/cable marking. This material is halogen free.

Print Methods: This material is recommended for laser printing only.

Adhesive: Acrylic based, pressure sensitive permanent adhesive.

Standard Colors: Transparent (matte)

Thickness: 4.5 ± 0.4 mils (substrate and adhesive)

Service Temperature Range: -40°F to 176°F (-40°C to 80°C)

Minimum Application Temperature: -10°F (-12.2°C)

Storage Conditions: Store at 70°F (21°C) and 50% Relative Humidity.

PROPERTIES: PERFORMANCE:

Peel Adhesion to Stainless Steel: 24 oz/in width (PSTC-101, 15 min. dwell)

Shear Adhesion: 3 hours (PSTC-107, 1 hour dwell)

Tensile Strength: MD 15 +/- 1.5 lbs./inch width (PSTC-131)

TD 14 +/- 1.4 lbs./inch width (PSTC-131)

Elongation: MD 150% +/- 30% (PSTC-131)

TD 250% +/- 50% (PSTC-131)

UV Resistance: *3000 hours no change observed (ASTM G154)

Elevated Temperature Exposure: After 8 hours at 150°F (65.5°C) there was no deterioration of the substrate

Modulus of Elasticity: MD: 150,000 +/- 40,000 psi

TD: 55,000 +/- 20,000 psi

Loop Tack: 2.8 lb/in width

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^{*3000} hours equates to 5 years of assimilated outdoor UV exposure.



Technical Data Sheet

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CHEMICAL/SOLVENT RESISTANCE:

Samples were laser printed and were wrapped around a 1/12" OD wire in self-laminating format. Test was conducted at room temperature after 24 hour dwell. The samples were immersed in the specified chemical reagents for 5 immersions using the following cycle: a 10 minute immersion time followed by a 30 minute recovery time.

	Visual Observation	
Chemical Reagent	Substrate / Adhesive	Laser Printed Legend
Distilled Water	No effect	No effect
Mineral Spirits	Slight adhesive bleed	No effect
Toluene	Slight adhesive bleed	No effect
Isopropyl Alcohol	No effect	No effect
Methanol	No effect	No effect
Acetone	No effect	No effect
Methyl Ethyl Ketone	Slight adhesive bleed	No effect
1,1,1 Trichloroethane	Slight adhesive bleed	No effect
Freon TF	Slight adhesive bleed	No effect
Super Agitene	No effect	No effect
Jet-A Fuel	Slight adhesive bleed	No effect
Arco TruSlide 68	No effect	No effect
SAE 30 Motor Oil	No effect	No effect

REFERENCES

Pressure Sensitive Tape Council (U.S.A) PSTC:

American Society for Testing and Materials (U.S.A.) ASTM:

APPROVALS

UL Recognized: UL969 MH 14979 File number:

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