

Technical Data Sheet**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

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

Technical Data Sheet**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.

Chemical Reagent	Visual Observation	
	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

PSTC: Pressure Sensitive Tape Council (U.S.A)
ASTM: American Society for Testing and Materials (U.S.A.)

APPROVALS

UL Recognized: UL969

File number: MH 14979

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