

**TEHNICAL INFORMATION**

White Gloss Polyimide Heat Resistant Film

**Description** LTH-7001 is a high temperature thermal transfer printable labelstock. Designed to be printed with high performance resin based ribbons, LTH-7001 will withstand temperatures up to 300°C and is resistant against many solvents and processing chemicals. We confirm that the material is in compliance with the requirements of the European Union Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment, also known as "RoHS".

**Construction** FACE STOCK  Gloss White Coated Polyimide Film  
 ADHESIVE  Acrylic Adhesive  
 RELEASE LINER  Siliconised paper

**Facestock** BASE BTHICKNESS (mm) 0,025 1.0 Mil  
 TOTAL THICKNESS (mm) 0,075 3.0 Mil

**Heat resistance**

O – resist X – not resist		Time				
		5 mins	10 mins	15 mins	90 mins	240 hr
Temperature (Centigrade)	300	O	O	O	X	X
	250	O	O	O	O	X
	200	O	O	O	O	O

**Resistance against Chemicals & Solvents**

Labelstock is applied to stainless steel plate and immersed in medium.

Medium	Test Duration	Result
Water at 95°C	8 hours	No effect*
Transformer oil at 23°C	24 hours	No effect*
Diesel oil at 23°C	24 hours	No effect*
Motor oil (SAE 30) at 23°C	24 hours	No effect*
Hydraulic oil (G.M Dextron II) at 23°C	24 hours	No effect*
Hexane at 23°C	24 hours	No effect*
Heptane at 23°C	16 hours	No effect*
White Spirit at 23°C	1 hour	No effect*
Jet Fuel A1 (ASTM D1655) at 23°C	24 hours	No effect*
Avgas 100LL (ASTM D910) at 23°C	24 hours	No effect*
Anti-Freeze solution at 23°C *1	24 hours	No effect*
Detergent solution at 23°C *2	8 hours	No effect*

\* ADHESION TO TEST PLATE IS UNAFFECTED/SURFACE IS INTACT

\*1 MIXTURE OF ETHYLENE GLYCOL AND WATER (1:1)

\*2 WATER WITH 3% COMMERCIAL DETERGENT/SURFACTANT

**Adhesive Strenght:**  
 180° Peel, 10 min Dwell

Surface	EN Value	ASTM Value
Stainless Steel	2.5N/cm	22.5 OZ/INCH
	+0,5 N/cm; -0,8 N/cm	
Aluminium	3.0 N/cm	27.0 OZ/INCH
Solder resist coated Printed Circuit Board	1.5 N/ cm	13.5 OZ/INCH
Polyimide Film	2.0 N/ cm	18.0 OZ/INCH
Powder Coated Surface	2.5 N/ cm	22.5 OZ/INCH

**Additional Information**

**Minimum recommended application temperature:** Room Temp.: 18°C

**Die cutting:** Rotary die-cutting is recommended.

**Packaging :** Store roll labelstock and finished labels in plastic bags.

**Handling:** Avoid contact with label surface.

**Storage:** Recommended storage conditions are 20°C and 50% RH; Contact with water and chemical must be avoided; Polyethylene film packaging is recommend.

**Disclaimer:** *The representations of performance and suitability for use contained in this data sheet are meant only as a guide. This specifications are guaranteed by the material producer. Since only the user is aware of the specified conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for that intended use.*