

## DPI2601

Revised: 11/2023 LEL

### Face Description

A durable **high sensitivity** direct thermal polypropylene film for use in **high-speed** thermal printers. Synthetic substrate exhibits good environmental resistance.

Test Property	Typical Values	Test Method
Basis Weight 17x22 /500	18.6 #	TAPPI T410
Caliper, inches	0.00320 +/- 10%	TAPPI T411
Brightness %	89% Avg.	TAPPI T525
Smoothness, Bekk test	3000 sec Avg.	TAPPI T479
Image Color	Black	
Initial Activation Temp (O.D.=0.2)		158 ± 9°F (70 ± 5°C)
Effective Activation Temp (O.D.=0.8)		185 ± 9°F (85 ± 5°C)
Optimum Activation Temp (O.D.=1.4)		230 ± 9°F (110 ± 5°C)
Resistance to Oils		Excellent
Resistance to Plasticizers		Good
Image Retention in Water (15 hr non-abrasive)		Good
Wet Rub Image Retention		Good

### Adhesive Description 640AT

An all temperature acrylic adhesive that performs well in normal to freezer temperature applications. 640AT exhibits open time on some substrates (please test) and develops a permanent bond to a wide variety of substrates.

Test Property	Typical Values	Test Method
Caliper, inches	0.0007 +/- 10%	
Min Application	-20°F (-29°C)	
Service range	-65 to 200°F (-54°C to 93°C)	
Average Peel Adhesion Stainless Steel 30 minutes applied/180° angle	1.8/lbs/inch	PSTC-101/Method A MACTac CTM8
Loop Tack g/1"	2.4 lbs/sq. inch	PSTC-16/Method A MACTac CTM25

When comparing values, keep in mind, other suppliers may use different testing methods.

### Liner Description

A semi-bleached, super calendared kraft liner excellent for die cutting and stripping. The liner release system is designed specifically for label dispensing. Primarily for roll-to-roll applications.

Test Property	Typical Values	Test Method
Caliper	0.0024 +/- 10%	TAPPI T411
Basis Weight	40 +/- 10%	TAPPI T410

### Applications

Used for barcode and human readable labels in retail, food packaging and industrial markets especially when an ultra sensitive film label is needed with an all-temperature adhesive. Recommended for high-speed printing. Recommended for short-term moisture exposure only. Contact your ink supplier for UV-curable coatings that may enhance environmental resistance.

### Shelf Life

One year when stored at 72°F and 50% RH. For more about Direct Thermal Storage, see the Technical Bulletin for Direct Thermal Storage at [www.mactac.com](http://www.mactac.com).

Note: The user is responsible for determining the product's suitability for all aspects of the application. If there are any questions about applications, regulatory compliances, please contact your MACTac sales representative to discuss your requirements for recommendations. If this is a printed Performance Guide, it is an uncontrolled document. Please check the MACTac website for the latest, most up-to-date version at [www.mactac.com](http://www.mactac.com)

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