

**Material Specification Sheet****Product:**

M-231

**Description:**

A 2.3 mil, gloss, topcoated, clear, polypropylene material

**Recommended Applications:**

M-231 works great for cryogenic specimen storage and testing (-112°F). Because storage and testing conditions can vary so significantly, we recommend that you test the labels in your specific application environment before use. Applying the labels at room temperature will ensure maximum adhesion.

**Facestock:**

A 2.3 mil, gloss, topcoated, clear polypropylene material that is smudge and abrasion resistant.

	<u>Value</u>	<u>Units</u>	<u>Test Method</u>
Thickness	2.0 ± 10%	mil	ASTM D 3652
Dimensional Stability:	No Shrinkage		24 hr on aluminum panel at 160°F
Tack:	280	gram/sq cm	ASTM D 2979

**Adhesive:**

A high performance, permanent, acrylic adhesive with great bonding to both low and high energy plastics and glass and great adhesion in extremely cold temperatures.

	<u>Value</u>	<u>Units</u>	<u>Test Method</u>
Thickness:	0.6-0.7 ± 0.1	mil	ASTM D 3652
Minimum Application temp:	50	°F	
Service temp:	-112 to +176	°F	
Shear:	100	hr	Room Temperature
Ultimate Peel:			
ABS	27	oz/in	
Acrylic	43	oz/in	
Glass	37	oz/in	
HDPE	12	oz/in	
Polycarbonate	42	oz/in	
Polyester	43	oz/in	
Polypropylene	6	oz/in	
Styrene	32	oz/in	

**Liner:**

A bleached, 50 pound, kraft, release liner, great for roll-form converting and suitable for optical sensing on most thermal transfer printers.

	<u>Value</u>	<u>Units</u>	<u>Test Method</u>
Thickness:	3.1 ± 10%	mil	ASTM D 3652

**Shelf Life:**

One year, under standard storage and humidity conditions

**PRODUCT DISCLAIMER**

All labels and label material constructions are sold with the understanding that the purchaser has independently determined the suitability of each product for the application for which it is purchased. The seller disclaims any implied warranty of fitness of a product for a particular purpose. All materials should be tested thoroughly by the purchaser under end-user conditions to ensure they meet the requirements of a specific application.

