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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.

	Value	Units	Test Method
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.

	Value	Units	Test Method
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.

	Value	Units	Test Method
Thickness:	3.1 ± 10%	mil	ASTM D 3652

Shelf Life:
One year, under standard storage and humidity conditions