

3M 7957MP Hi-Performance Acrylic 200MP

Category : Polymer , Adhesive

Material Notes:

This adhesive meets the requirements of most long-term applications. It offers temperature resistance to 400°F (204°C). Peel adhesion values are excellent on most membrane switch substrate materials. It features exceptional shear strength and adhesion to high surface energy (HSE) plastics and metal surfaces. Designed to meet the performance requirements of most membrane keyboards. Outstanding resistance to temperature extremes, chemicals and humidity. Also resists oozing, lifting and separation of switch layers. All products feature 2 mils of 200MP on each side. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-7957MP-Hi-Performance-Acrylic-200MP.php

Physical Properties	Metric	English	Comments
Thickness	50.8 microns	2.00 mil	Adhesive
	50.8 microns	2.00 mil	Adhesive
	76.2 microns	3.00 mil	Polyester

Mechanical Properties	Metric	English	Comments
Shear Strength	0.455 MPa	66.0 psi	Cohesion Dynamic, PET/Polycarbonate; ASTM D1002
	0.545 MPa	79.0 psi	Cohesion Dynamic, PET/Stainless Steel; ASTM D1002
Peel Strength	0.40538 kN/m	2.3125 pli	90° Peel, PET/PET, Initial (20 mins); ASTM D3330
	0.44921 kN/m	2.5625 pli	90° Peel, PET/Polycarbonate, Initial (20 mins); ASTM D3330
	0.5916 kN/m	3.375 pli	90° Peel, PET/Stainless Steel, Initial (20 mins); ASTM D3330
	0.657 kN/m	3.75 pli	90° Peel, PET/PET, 72 hrs at RT; ASTM D3330
	0.7231 kN/m	4.125 pli	90° Peel, PET/Aluminum, Initial (20 mins); ASTM D3330
	0.7231 kN/m	4.125 pli	90° Peel, PET/Polycarbonate, 72 hrs at RT; ASTM D3330
	0.789 kN/m	4.50 pli	90° Peel, PET/Polycarbonate, 72 hrs at 70°C; ASTM D3330
	0.79981 kN/m	4.5625 pli	90° Peel, PET/Aluminum, 72 hrs at RT; ASTM D3330
	1.0408 kN/m	5.9375 pli	90° Peel, PET/Stainless Steel, 72 hrs at RT; ASTM D3330

Mechanical Properties	1.49 kN/m Metric	8.50 pli English	90° Peel, PET/PET, 72 hrs at 70°C; ASTM D3330
	1.62 kN/m	9.25 pli	90° Peel, PET/Aluminum, 72 hrs at 70°C; ASTM D3330
	1.6763 kN/m	9.5625 pli	90° Peel, PET/Stainless Steel, 72 hrs at 70°C; ASTM D3330

Thermal Properties	Metric	English	Comments
CTE, linear	5.40 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 27.0 - 175 $^\circ\text{C}$	3.00 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 80.6 - 347 $^\circ\text{F}$	ASTM D696

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+15 ohm-cm	1.30e+15 ohm-cm	ASTM D257
Surface Resistance	$\geq 5.60\text{e}+16$ ohm	$\geq 5.60\text{e}+16$ ohm	ASTM D257
Insulation Resistance	1.10e+13 ohm	1.10e+13 ohm	100VDC, 60 sec; Mil-I-46058C
Dielectric Constant	3.33	3.33	ASTM D150
Dielectric Strength	66.9 kV/mm	1700 kV/in	ASTM D149
Dissipation Factor	0.013	0.013	ASTM D150

Descriptive Properties	Value	Comments
Adhesive Type	200MP	
Liner	58# PCK 4.2	

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