

## 3M 7945MP 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-7945MP-Hi-Performance-Acrylic-200MP.php](http://www.lookpolymers.com/polymer_3M-7945MP-Hi-Performance-Acrylic-200MP.php)

Physical Properties	Metric	English	Comments
Thickness	25.4 microns	1.00 mil	Polyester
	50.8 microns	2.00 mil	Adhesive
	50.8 microns	2.00 mil	Adhesive

Mechanical Properties	Metric	English	Comments
Shear Strength	0.469 MPa	68.0 psi	Cohesion Dynamic, PET/Stainless Steel; ASTM D1002
	0.483 MPa	70.0 psi	Cohesion Dynamic, PET/Polycarbonate; ASTM D1002
Peel Strength	0.4602 kN/m	2.625 pli	90° Peel, PET/Aluminum, Initial (20 mins); ASTM D3330
	0.53686 kN/m	3.0625 pli	90° Peel, PET/PET, Initial (20 mins); ASTM D3330
	0.5478 kN/m	3.125 pli	90° Peel, PET/Polycarbonate, Initial (20 mins); ASTM D3330
	0.701 kN/m	4.00 pli	90° Peel, PET/Stainless Steel, Initial (20 mins); ASTM D3330
	0.73407 kN/m	4.1875 pli	90° Peel, PET/PET, 72 hrs at RT; ASTM D3330
	0.789 kN/m	4.50 pli	90° Peel, PET/Polycarbonate, 72 hrs at RT; ASTM D3330
	0.920 kN/m	5.25 pli	90° Peel, PET/Aluminum, 72 hrs at RT; ASTM D3330
	0.920 kN/m	5.25 pli	90° Peel, PET/Polycarbonate, 72 hrs at 70°C; ASTM D3330
	1.23 kN/m	7.00 pli	90° Peel, PET/Stainless Steel, 72 hrs at RT; ASTM D3330

Mechanical Properties	Metric	English	Comments
	1.380 kN/m	7.875 pli	90° Peel, PET/PET, 72 hrs at 70°C; ASTM D3330
	1.797 kN/m	10.25 pli	90° Peel, PET/Stainless Steel, 72 hrs at 70°C; ASTM D3330
	1.84 kN/m	10.5 pli	90° Peel, PET/Aluminum, 72 hrs at 70°C; ASTM D3330

Thermal Properties	Metric	English	Comments
CTE, linear	6.10 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 27.0 - 175 °C	3.39 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 80.6 - 347 °F	ASTM D696

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.70e+14 ohm-cm	5.70e+14 ohm-cm	ASTM D257
Surface Resistance	$\geq 5.60\text{e}+16$ ohm	$\geq 5.60\text{e}+16$ ohm	ASTM D257
Insulation Resistance	1.00e+13 ohm	1.00e+13 ohm	100VDC, 60 sec; Mil-I-46058C
Dielectric Constant	3.48	3.48	ASTM D150
Dielectric Strength	59.1 kV/mm	1500 kV/in	ASTM D149
Dissipation Factor	0.016	0.016	ASTM D150

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

## Contact Songhan Plastic Technology Co.,Ltd.

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