

3M 7997MP 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. Single side spacers aid in the construction of membrane switch circuitry, i.e. to protect leads, hold domes in place, or build spacers. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-7997MP-Hi-Performance-Acrylic-200MP.php

Physical Properties	Metric	English	Comments
Thickness	50.8 microns	2.00 mil	Adhesive
	127 microns	5.00 mil	Polyester

Mechanical Properties	Metric	English	Comments
Peel Strength	0.263 kN/m	1.50 pli	90° Peel, PET/Stainless Steel, Initial (20 mins); ASTM D3330
	0.351 kN/m	2.00 pli	90° Peel, PET/Aluminum, Initial (20 mins); ASTM D3330
	0.394 kN/m	2.25 pli	90° Peel, PET/Polycarbonate, Initial (20 mins); ASTM D3330
	0.42729 kN/m	2.4375 pli	90° Peel, PET/PET, Initial (20 mins); ASTM D3330
	0.7231 kN/m	4.125 pli	90° Peel, PET/PET, 72 hrs at RT; ASTM D3330
	0.745 kN/m	4.25 pli	90° Peel, PET/Polycarbonate, 72 hrs at RT; ASTM D3330
	0.82172 kN/m	4.6875 pli	90° Peel, PET/Aluminum, 72 hrs at RT; ASTM D3330
	1.030 kN/m	5.875 pli	90° Peel, PET/Stainless Steel, 72 hrs at RT; ASTM D3330
	1.4791 kN/m	8.4375 pli	90° Peel, PET/Polycarbonate, 72 hrs at 70°C; ASTM D3330
	2.816 kN/m	16.06 pli	90° Peel, PET/PET, 72 hrs at 70°C; ASTM D3330
	2.8705 kN/m	16.375 pli	90° Peel, PET/Aluminum, 72 hrs at 70°C; ASTM D3330
	3.539 kN/m	20.19 pli	90° Peel, PET/Stainless Steel, 72 hrs at 70°C; ASTM D3330

Thermal Properties	Metric	English	Comments
CTE, linear	2.80 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	1.56 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 27.0 - 175 $^{\circ}\text{C}$	@Temperature 80.6 - 347 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.80e+15 ohm-cm	4.80e+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	6.50e+12 ohm	6.50e+12 ohm	100VDC, 60 sec; Mil-I-46058C
Dielectric Constant	3.05	3.05	ASTM D150
Dielectric Strength	66.9 kV/mm	1700 kV/in	ASTM D149
Dissipation Factor	0.0080	0.0080	ASTM D150

Descriptive Properties	Value	Comments
Adhesive Type	200MP	
Liner	94# PCK 7.0	

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