

3M 7993MP 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-7993MP-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

Mechanical Properties	Metric	English	Comments
Peel Strength	0.394 kN/m	2.25 pli	90° Peel, PET/Aluminum, Initial (20 mins); ASTM D3330
	0.394 kN/m	2.25 pli	90° Peel, PET/PET, Initial (20 mins); ASTM D3330
	0.4163 kN/m	2.375 pli	90° Peel, PET/Polycarbonate, Initial (20 mins); ASTM D3330
	0.438 kN/m	2.50 pli	90° Peel, PET/Stainless Steel, Initial (20 mins); ASTM D3330
	0.5040 kN/m	2.875 pli	90° Peel, PET/PET, 72 hrs at RT; ASTM D3330
	0.55877 kN/m	3.1875 pli	90° Peel, PET/Polycarbonate, 72 hrs at RT; ASTM D3330
	0.6793 kN/m	3.875 pli	90° Peel, PET/Polycarbonate, 72 hrs at 70°C; ASTM D3330
	0.701 kN/m	4.00 pli	90° Peel, PET/Aluminum, 72 hrs at RT; ASTM D3330
	0.745 kN/m	4.25 pli	90° Peel, PET/Stainless Steel, 72 hrs at RT; ASTM D3330
	0.789 kN/m	4.50 pli	90° Peel, PET/PET, 72 hrs at 70°C; ASTM D3330
	0.86554 kN/m	4.9375 pli	90° Peel, PET/Aluminum, 72 hrs at 70°C; ASTM D3330
	0.8984 kN/m	5.125 pli	90° Peel, PET/Stainless Steel, 72 hrs at 70°C; ASTM D3330

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	2.50 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 27.0 - 175 $^{\circ}\text{C}$	@Temperature 80.6 - 347 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.70e+15 ohm-cm	2.70e+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	2.77	2.77	ASTM D150
Dielectric Strength	66.9 kV/mm	1700 kV/in	ASTM D149
Dissipation Factor	0.012	0.012	ASTM D150

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

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