

3M 7953MP 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. Double-coated polyester for adhesive stability and ease of handling. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-7953MP-Hi-Performance-Acrylic-200MP.php

Physical Properties	Metric	English	Comments
Thickness	12.7 microns	0.500 mil	Polyester
	38.1 microns	1.50 mil	Adhesive
	114 microns	4.50 mil	Adhesive

Mechanical Properties	Metric	English	Comments
Shear Strength	0.552 MPa	80.0 psi	Cohesion Dynamic, PET/Polycarbonate; ASTM D1002
	0.710 MPa	103 psi	Cohesion Dynamic, PET/Stainless Steel; ASTM D1002
Peel Strength	0.351 kN/m	2.00 pli	90° Peel, PET/Aluminum, Initial (20 mins); ASTM D3330
	0.482 kN/m	2.75 pli	90° Peel, PET/PET, Initial (20 mins); ASTM D3330
	0.51494 kN/m	2.9375 pli	90° Peel, PET/Polycarbonate, Initial (20 mins); ASTM D3330
	0.5478 kN/m	3.125 pli	90° Peel, PET/Stainless Steel, Initial (20 mins); ASTM D3330
	0.79981 kN/m	4.5625 pli	90° Peel, PET/PET, 72 hrs at RT; ASTM D3330
	0.82172 kN/m	4.6875 pli	90° Peel, PET/Aluminum, 72 hrs at RT; ASTM D3330
	0.82172 kN/m	4.6875 pli	90° Peel, PET/Polycarbonate, 72 hrs at 70°C; ASTM D3330
	0.833 kN/m	4.75 pli	90° Peel, PET/Polycarbonate, 72 hrs at RT; ASTM D3330
	1.2381 kN/m	7.0625 pli	90° Peel, PET/Stainless Steel, 72 hrs at RT; ASTM D3330
1.3695 kN/m	7.8125 pli	90° Peel, PET/PET, 72 hrs at 70°C; ASTM D3330	

Mechanical Properties	Metric	English	Comments
	1.67 kN/m	9.50 pli	90° Peel, PET/Aluminum, 72 hrs at 70°C; ASTM D3330
	1.75 kN/m	10.0 pli	90° Peel, PET/Stainless Steel, 72 hrs at 70°C; ASTM D3330

Thermal Properties	Metric	English	Comments
CTE, linear	6.70 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	3.72 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 27.0 - 175 $^{\circ}\text{C}$	@Temperature 80.6 - 347 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.80e+14 ohm-cm	5.80e+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	1.70e+13 ohm	1.70e+13 ohm	100VDC, 60 sec; Mil-I-46058C
Dielectric Constant	3.4	3.4	ASTM D150
Dielectric Strength	55.1 kV/mm	1400 kV/in	ASTM D149
Dissipation Factor	0.017	0.017	ASTM D150

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

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