

3M 9059MP 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. The 90xx series of products has a layflat liner on each side which improves die-cutting and handling of intricate die-cut parts. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-9059MP-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
	127 microns	5.00 mil	Polyester

Mechanical Properties	Metric	English	Comments
Shear Strength	0.476 MPa	69.0 psi	Cohesion Dynamic, PET/Polycarbonate; ASTM D1002
	0.538 MPa	78.0 psi	Cohesion Dynamic, PET/Stainless Steel; ASTM D1002
Peel Strength	0.3287 kN/m	1.875 pli	90° Peel, PET/Stainless Steel, Initial (20 mins); ASTM D3330
	0.33964 kN/m	1.9375 pli	90° Peel, PET/Aluminum, Initial (20 mins); ASTM D3330
	0.36156 kN/m	2.0625 pli	90° Peel, PET/PET, Initial (20 mins); ASTM D3330
	0.394 kN/m	2.25 pli	90° Peel, PET/Polycarbonate, Initial (20 mins); ASTM D3330
	0.58068 kN/m	3.3125 pli	90° Peel, PET/PET, 72 hrs at RT; ASTM D3330
	0.5916 kN/m	3.375 pli	90° Peel, PET/Polycarbonate, 72 hrs at RT; ASTM D3330
	0.7231 kN/m	4.125 pli	90° Peel, PET/Polycarbonate, 72 hrs at 70°C; ASTM D3330
	0.745 kN/m	4.25 pli	90° Peel, PET/Aluminum, 72 hrs at RT; ASTM D3330
	0.90937 kN/m	5.1875 pli	90° Peel, PET/Stainless Steel, 72 hrs at RT; ASTM D3330
	1.293 kN/m	7.375 pli	90° Peel, PET/PET, 72 hrs at 70°C; ASTM D3330

Mechanical Properties	Metric	English	Comments
	1.468 kN/m	8.375 pli	90° Peel, PET/Aluminum, 72 hrs at 70°C; ASTM D3330
	1.468 kN/m	8.375 pli	90° Peel, PET/Stainless Steel, 72 hrs at 70°C; ASTM D3330

Thermal Properties	Metric	English	Comments
CTE, linear	4.70 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 27.0 - 175 °C	2.61 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 80.6 - 347 °F	ASTM D696

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+15 ohm-cm	1.50e+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	1.90e+13 ohm	1.90e+13 ohm	100VDC, 60 sec; Mil-I-46058C
Dielectric Constant	3.32	3.32	ASTM D150
Dielectric Strength	63.0 kV/mm	1600 kV/in	ASTM D149
Dissipation Factor	0.011	0.011	ASTM D150

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

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