

3M 7951 Hi-Performance Acrylic 300MP

Category : Polymer , Adhesive

Material Notes:

This adhesive is designed for applications requiring greater initial adhesion especially to low surface energy (LSE) plastic substrates.

Temperature performance is up to 300°F (149°C) for most applications. Double-lined 300MP. High bond strength to low surface energy plastics. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-7951-Hi-Performance-Acrylic-300MP.php

Physical Properties	Metric	English	Comments
Thickness	50.8 microns	2.00 mil	Adhesive

Mechanical Properties	Metric	English	Comments
Shear Strength	0.531 MPa	77.0 psi	Cohesion Dynamic, PET/Polycarbonate; ASTM D1002
	0.655 MPa	95.0 psi	Cohesion Dynamic, PET/Stainless Steel; ASTM D1002
Peel Strength	0.40538 kN/m	2.3125 pli	90° Peel, PET/Stainless Steel, Initial (20 mins); ASTM D3330
	0.40538 kN/m	2.3125 pli	90° Peel, PET/PET, Initial (20 mins); ASTM D3330
	0.44921 kN/m	2.5625 pli	90° Peel, PET/Polycarbonate, Initial (20 mins); ASTM D3330
	0.51494 kN/m	2.9375 pli	90° Peel, PET/Aluminum, Initial (20 mins); ASTM D3330
	0.62451 kN/m	3.5625 pli	90° Peel, PET/Polycarbonate, 72 hrs at RT; ASTM D3330
	0.64642 kN/m	3.6875 pli	90° Peel, PET/PET, 72 hrs at RT; ASTM D3330
	0.66833 kN/m	3.8125 pli	90° Peel, PET/Aluminum, 72 hrs at RT; ASTM D3330
	0.77789 kN/m	4.4375 pli	90° Peel, PET/Polycarbonate, 72 hrs at 70°C; ASTM D3330
	0.84363 kN/m	4.8125 pli	90° Peel, PET/Stainless Steel, 72 hrs at RT; ASTM D3330
	0.84363 kN/m	4.8125 pli	90° Peel, PET/PET, 72 hrs at 70°C; ASTM D3330
	0.964 kN/m	5.50 pli	90° Peel, PET/Aluminum, 72 hrs at 70°C; ASTM D3330
	1.0408 kN/m	5.9375 pli	90° Peel, PET/Stainless Steel, 72 hrs at 70°C; ASTM D3330

Thermal Properties	Metric	English	Comments
CTE, linear	4.90 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	2.72 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 27.0 - 175 $^\circ\text{C}$	@Temperature 80.6 - 347 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.80e+14 ohm-cm	1.80e+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	1.10e+13 ohm	1.10e+13 ohm	100VDC, 60 sec; Mil-I-46058C
Dielectric Constant	3.36	3.36	ASTM D150
Dielectric Strength	18.5 kV/mm	470 kV/in	ASTM D149
Dissipation Factor	0.011	0.011	ASTM D150

Descriptive Properties	Value	Comments
Adhesive Type	300MP	
Liner	58# PCK 4.2	

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