

3M 941 Adhesive Transfer Tapes with Adhesive 100

Category : Polymer , Adhesive

Material Notes:

These 3M™ Adhesive Transfer Tapes with 3M™ Adhesive 100 are designed for temperature exposure to 450°F (232°C) for short periods of time and/or solvent resistance. They have exceptional shear values even at elevated temperatures. They also offer low “outgassing” properties, which is an important consideration for the aerospace, automotive and electronic industries. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-941-Adhesive-Transfer-Tapes-with-Adhesive-100.php

Physical Properties	Metric	English	Comments
Thickness	58.4 microns	2.30 mil	

Mechanical Properties	Metric	English	Comments
Peel Strength	0.438 kN/m	2.50 pli	High Surface Energy Plastic (ABS), Ultimate bond, 90° peel, 12"/min., 2 mil aluminum; ASTM D3330
	0.482 kN/m	2.75 pli	High Surface Energy Plastic (ABS), 20 min dwell, 90° peel, 12"/min., 2 mil aluminum; ASTM D3330
	0.58068 kN/m	3.3125 pli	to Stainless Steel, 20 min dwell, 90° peel, 12"/min., 2 mil aluminum; ASTM D3330
	0.5916 kN/m	3.375 pli	High Surface Energy Plastic (ABS), 72 hr. dwell, 90° peel, 12"/min., 2 mil aluminum; ASTM D3330
	0.8546 kN/m	4.875 pli	to Stainless Steel, 72 hr. dwell, 90° peel, 12"/min., 2 mil aluminum; ASTM D3330
	1.5887 kN/m	9.0625 pli	to Stainless Steel, Ultimate bond, 90° peel, 12"/min., 2 mil aluminum; ASTM D3330

Thermal Properties	Metric	English	Comments
CTE, linear	19.9 µm/m-°C	11.1 µin/in-°F	First heat; ASTM-D696
	@Temperature 125 - 175 °C	@Temperature 257 - 347 °F	
	58.4 µm/m-°C	32.4 µin/in-°F	Second heat; ASTM-D696
	@Temperature 25.0 - 175 °C	@Temperature 77.0 - 347 °F	
Thermal Conductivity	0.178 W/m-K	1.24 BTU-in/hr-ft²-°F	ASTM C518
	@Temperature 51.0 °C	@Temperature 124 °F	

Thermal Properties	Metric	English	Comments
	0.183 W/m-K	1.27 BTU-in/hr-ft ² -°F	ASTM C518
	@Temperature 71.0 °C	@Temperature 160 °F	
	0.187 W/m-K	1.30 BTU-in/hr-ft ² -°F	ASTM C518
	@Temperature 101 °C	@Temperature 214 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+15 ohm-cm	4.00e+15 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Insulation Resistance	>= 9.40e+10 ohm	>= 9.40e+10 ohm	Cycle #410, test voltage = 100 VDC, MIL-I-46058C
	>= 1.50e+11 ohm	>= 1.50e+11 ohm	Cycle #4, test voltage = 100 VDC, MIL-I-46058C
	>= 9.70e+12 ohm	>= 9.70e+12 ohm	24 hr after moisture resistance
	>= 1.00e+15 ohm	>= 1.00e+15 ohm	Before moisture resistance, test voltage = 100 VDC, MIL-I-46058C
Dielectric Constant	2.92	2.92	ASTM D-150-92
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	43.3 kV/mm	1100 kV/in	500 vac, rms. [60 Hz]/sec; ASTM D149-92
Dissipation Factor	0.0025	0.0025	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Liner	58# Polycoated Kraft - 4.0 mils thick	

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