

3M 9731 Double Coated Tape

Category : Polymer , Adhesive

Material Notes:

3M™ Double Coated Tapes 9731 and 9731RW have a firm, silicone pressure sensitive adhesive coated on one side of a polyester film carrier and a high performance acrylic adhesive coated on the other side of the carrier. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-9731-Double-Coated-Tape.php

Physical Properties	Metric	English	Comments
Thickness	25.4 microns	1.00 mil	Carrier
	40.6 microns	1.60 mil	Faceside Adhesive
	73.7 microns	2.90 mil	Backside Adhesive
	73.7 microns	2.90 mil	Backside Liner
	107 microns	4.20 mil	Faceside Liner
	140 microns	5.50 mil	Total Thickness

Mechanical Properties	Metric	English	Comments
Peel Strength	0.42729 kN/m	2.4375 pli	ABS, 180°, 2 mil al foil, Silicone Adhesive, 72 hr RT; ASTM D3330
	0.438 kN/m	2.50 pli	Stainless Steel, 90°, Silicone Adhesive, 15 min RT; ASTM D3330
	0.438 kN/m	2.50 pli	Polypropylene, 180°, 2 mil al foil, Silicone Adhesive, 72 hr RT; ASTM D3330
	0.4602 kN/m	2.625 pli	Stainless Steel, 90°, Silicone Adhesive, 72 hr RT; ASTM D3330
	0.4602 kN/m	2.625 pli	Polycarbonate, 180°, 2 mil al foil, Silicone Adhesive, 72 hr RT; ASTM D3330
	0.482 kN/m	2.75 pli	Polypropylene, 180°, 2 mil al foil, Acrylic Adhesive, 72 hr RT; ASTM D3330
	0.526 kN/m	3.00 pli	Stainless Steel, 90°, Silicone Adhesive, 72 hr at 150°F; ASTM D3330
	0.657 kN/m	3.75 pli	Polycarbonate, 180°, 2 mil al foil, Acrylic Adhesive, 72 hr RT; ASTM D3330
	0.77789 kN/m	4.4375 pli	Stainless Steel, 90°, Acrylic Adhesive, 15 min RT; ASTM D3330

Mechanical Properties	Metric kN/m	English ^{II}	Comments ABS, 180°, 7 mil al foil, Acrylic Adhesive, 72 hr RT; ASTM D3330
	1.0189 kN/m	5.8125 pli	Stainless Steel, 90°, Acrylic Adhesive, 72 hr RT; ASTM D3330
	1.3257 kN/m	7.5625 pli	Stainless Steel, 90°, Acrylic Adhesive, 72 hr at 150°F; ASTM D3330

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	Long term
	177 °C	351 °F	Short term

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.60e+15 ohm-cm	2.60e+15 ohm-cm	Silicone Adhesive Surface
	3.40e+15 ohm-cm	3.40e+15 ohm-cm	Volume
	7.40e+15 ohm-cm	7.40e+15 ohm-cm	Acrylic Adhesive Surface
Dielectric Strength	315 kV/mm	8000 kV/in	ASTM D1000

Processing Properties	Metric	English	Comments
Shelf Life	18.0 Month	18.0 Month	

Descriptive Properties	Value	Comments
Appearance	Backside liner	
	Faceside Liner	
Liner	Fluoropolymer non-silicone clear, PET	
	Tan, Polycoated Kraft	

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