3M 9085 Ultra High Temperature 100 HT Adhesive Transfer Tape

Category : Polymer , Adhesive

Material Notes:

3M™ Ultra High Temperature 100HT Adhesive Transfer Tapes 9082 and 9085 utilize a high performance and low outgassing adhesive system having excellent heat resistance in high temperature environments. Not only does it have excellent holding power, but also its adhesion strength is significantly higher than typical pressure sensitive tapes. 3M™ Ultra High Temperature 100HT Adhesive Transfer Tapes 9082UV and 9085UV have a UV fluoresce agent to allow black light inspection during converting and assembly. These adhesive transfer tapes are ideal for use in many industrial applications subjected to higher temperature environments. Typical examples are for automotive under-hood applications that require both higher processing and operating temperatures. Other areas include printed circuit boards and heat sink bonding in many electronics applications subjected to high solder reflow temperatures.Information provided by 3M

Order this product through the following link:
http://www.lookpolymers.com/polymer_3M-9085-Ultra-High-Temperature-100-HT-Adhesive-Transfer-Tape.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in³	
Thickness	81.3 microns	3.20 mil	Release Liner
	127 microns	5.00 mil	Adhesive

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	0.0350 MPa @Temperature 230 °C	5.08 psi @Temperature 446 °F	T-Block on Aluminum; ASTM D987
	0.0700 MPa @Temperature 107 °C	10.2 psi @Temperature 225 °F	T-Block on Aluminum; ASTM D987
	0.0700 MPa @Temperature 150 °C	10.2 psi @Temperature 302 °F	T-Block on Aluminum; ASTM D987
	0.0700 MPa @Temperature 175 °C	10.2 psi @Temperature 347 °F	T-Block on Aluminum; ASTM D987
	0.345 MPa @Temperature 23.0 °C	50.0 psi @Temperature 73.4 °F	T-Block on Aluminum; ASTM D987
Shear Strength	0.0689 MPa @Temperature 230 °C	10.0 psi @Temperature 446 °F	Over-Lap Shear on Stainless Steel; ASTM D1002
	0.103 MPa @Temperature 175 °C	15.0 psi @Temperature 347 °F	Over-Lap Shear on Stainless Steel; ASTM D1002

Mechanical Properties	Metric	English	Comments
	0.172 MPa @Temperature 150 °C	25.0 psi @Temperature 302 °F	Over-Lap Shear on Stainless Steel; ASTM D1002
	0.207 MPa @Temperature 107 °C	30.0 psi @Temperature 225 °F	Over-Lap Shear on Stainless Steel; ASTM D1002
	0.552 MPa @Temperature 23.0 °C	80.0 psi @Temperature 73.4 °F	Over-Lap Shear on Stainless Steel; ASTM D1002
Peel Strength	0.175 kN/m @Temperature 230 °C	1.00 pli @Temperature 446 °F	Adhesion on Aluminum; ASTM D3330
	0.526 kN/m @Temperature 175 °C	3.00 pli @Temperature 347 °F	Adhesion on Aluminum; ASTM D3330
	0.701 kN/m @Temperature 150 °C	4.00 pli @Temperature 302 °F	Adhesion on Aluminum; ASTM D3330
	0.877 kN/m @Temperature 107 °C	5.00 pli @Temperature 225 °F	Adhesion on Aluminum; ASTM D3330
	1.05 kN/m @Temperature 23.0 °C	6.00 pli @Temperature 73.4 °F	Adhesion on Aluminum; ASTM D3330

Thermal Properties	Metric	English	Comments
CTE, linear	77.0 µm/m-°C	42.8 µin/in-°F	
Thermal Conductivity	0.669 W/m-K	4.64 BTU-in/hr-ft²-°F	ASTM C177
Maximum Service Temperature, Air	177 °C	351 °F	Long term
	280 °C	536 °F	Short term

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+6 ohm	>= 1.00e+6 ohm	ASTM D1000
Dielectric Strength	11.8 kV/mm @Temperature 23.0 °C	300 kV/in @Temperature 73.4 °F	ASTM D149-97A
	30.3 kV/mm @Temperature 175 °C	770 kV/in @Temperature 347 °F	ASTM D149-97A
	34.3 kV/mm @Temperature 150 °C	870 kV/in @Temperature 302 °F	ASTM D149-97A

Electrical Properties	Metric	English	Comments
	47.2 kV/mm @Temperature 23.0 °C	1200 kV/in @Temperature 73.4 °F	ASTM D149-97A

Processing Properties	Metric	English	Comments
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Adhesive Type	Acrylic Adhesive	
Liner	Brown paper	

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