

Rogers Corporation 2929 Bondply Unreinforced, Hydrocarbon based Thin Film Adhesive System

Category : Polymer , Adhesive

Material Notes:

Low dielectric constant and loss tangentIdeal for multi-layer bondingCompatible with traditional processing methodsCompatible with a broad range of material types including PTFE compositesReliable through sequential bondingCan be tack bonded to inner-layer surfaces prior to machining cut-outsExcellent blind via fill capabilityPredictable control of post-bond thicknessLead-Free process compatibleColor: WhiteTypical Applications:Automotive Radar and SensorsPoint-to point MicrowaveBase Station AntennasPower AmplifiersPhased Array RadarRF ComponentsPatch AntennasPower BackplanesInformation provided by Rogers Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Rogers-Corporation-2929-Bondply-Unreinforced-Hydrocarbon-based-Thin-Film-Adhesive-System.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.10 %	0.10 %	D24/23; ASTM D570
Outgassing - Total Mass Loss	0.020 %	0.020 %	CVCM; ASTM E595
	0.030 %	0.030 %	WVR; ASTM E595
	0.42 %	0.42 %	TML; ASTM E595

Mechanical Properties	Metric	English	Comments
Peel Strength	0.877 kN/m	5.00 pli	Copper; X- and Y-Directions; 1/2 oz. EDC Post Solder; IPC-TM-650 2.4.8

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m/m-}^{\circ}\text{C}$	27.8 $\mu\text{in/in-}^{\circ}\text{F}$	X-Direction; IPC-TM-650 2.4.41
	@Temperature 0.000 - 150 $^{\circ}\text{C}$	@Temperature 32.0 - 302 $^{\circ}\text{F}$	
	50.0 $\mu\text{m/m-}^{\circ}\text{C}$	27.8 $\mu\text{in/in-}^{\circ}\text{F}$	Y-Direction; IPC-TM-650 2.4.41
	@Temperature 0.000 - 150 $^{\circ}\text{C}$	@Temperature 32.0 - 302 $^{\circ}\text{F}$	
	50.0 $\mu\text{m/m-}^{\circ}\text{C}$	27.8 $\mu\text{in/in-}^{\circ}\text{F}$	Z-Direction; IPC-TM-650 2.4.41
	@Temperature 0.000 - 150 $^{\circ}\text{C}$	@Temperature 32.0 - 302 $^{\circ}\text{F}$	
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² - $^{\circ}\text{F}$	Z Direction; ASTM C518
	@Temperature 80.0 $^{\circ}\text{C}$	@Temperature 176 $^{\circ}\text{F}$	

Glass Transition Temp, Tg Thermal Properties	170 °C Metric	338 °F English	DMA Method; IPC-TM-650 2.4.24 Comments
Decomposition Temperature	400 °C	752 °F	TGA 5% WT; ASTM D3850

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.89 - 2.99 @Frequency 1.00e+10 Hz	2.89 - 2.99 @Frequency 1.00e+10 Hz	Z Direction; IPC-TM-650 2.5.5.5.1
Dielectric Strength	98.4 kV/mm	2500 kV/in	Z Direction, 50% RH; IPC-TM-650 2.5.6.2
Dissipation Factor	0.0030	0.0030	IPC-TM-650 2.5.5.5

Descriptive Properties	Value	Comments
Thermal Coefficient of Dielectric Constant	-6 ppm/°C	IPC-TM-650 2.5.5.5; -50°C to 150°C; Z-Direction
Time to Delamination (T-288)	> 30 min	TMA, Z-direction

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