

Rogers Corporation 3001 Thermoplastic Chloro-Fluorocopolymer Bonding Film

Category : Polymer , Thermoplastic , Fluoropolymer

Material Notes:

Rogers 3001 bonding film is a thermoplastic chloro-fluorocopolymer. It is recommended for bonding low dielectric constant PTFE (Teflon® fluorocarbon polymer) microwave stripline packages and other multilayer circuits. It may also be used to bond other structural and electrical components to the dielectric. 3001 bonding film features a low dielectric constant and low loss tangent at microwave frequencies, ensuring minimum interference with the electrical function of bonded stripline and other multilayer constructions. Information provided by Rogers Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Rogers-Corporation-3001-Thermoplastic-Chloro-Fluorocopolymer-Bonding-Film.php

Physical Properties	Metric	English	Comments
Water Absorption	0.050 %	0.050 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Thickness	38.1 microns	1.50 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	115 %	115 %	ASTM D882
Film Elongation at Break, TD	200 %	200 %	ASTM D882
Tensile Modulus	0.965 GPa	140 ksi	MD; ASTM D882
	1.03 GPa	150 ksi	TD; ASTM D882
Adhesive Bond Strength	9.65 MPa	1400 psi	Rogers Test Method
Film Tensile Strength at Break, MD	51.7 MPa	7500 psi	ASTM D882
Film Tensile Strength at Break, TD	37.9 MPa	5500 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	Z direction
Melting Point	186 °C	367 °F	Crystalline
Maximum Service Temperature, Air	176 °C	349 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.25	2.25	X-Band; Two stacks of 40 piles of film are used; IPC-TM-650 2.5.5.5
Dielectric Strength	98.4 kV/mm	2500 kV/in	Z Direction; ASTM D149
Dissipation Factor	0.0030	0.0030	Z direction; X-band; IPC-TM-650 2.5.5.5

Descriptive Properties	Value	Comments
Tensile, CMD (lb) per ASTM D882	5500	ASTM D882
Tensile, MD (lb) per ASTM D882	7500	ASTM D882

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China