

Rogers Corporation LoPro™ RO4730 Antenna Grade Non-PTFE Laminate

Category : Polymer , Thermoset

Material Notes:

RO4730 LoPro Antenna Grade Laminates are fully compatible with conventional FR-4 and high temperature lead-free solder processing. The resin systems of RO4730 dielectric materials are designed to provide the necessary properties for ideal antenna performance. Features: Low loss dielectric with low profile foil Unique filler / closed microspheres Low Z-Axis CTE and high Tg Low TCDk Specially formulated thermoset resin system/filler Environmentally friendly - Halogen free, Lead free process compatible and RoHS compliant Benefits: Reduced PIM Low insertion loss Match DK to 3.0 materials Low density/lightweight - ~ 30% lighter than PTFE/glass Design flexibility Automated assembly compatible Consistent circuit performance Ease of fabrication PTH process capability Information provided by Rogers Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Rogers-Corporation-LoPro-RO4730-Antenna-Grade-Non-PTFE-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.13 %	0.13 %	IPC-TM-650 2.6.2.1; ASTM D570
Thickness	780 - 1540 microns	30.7 - 60.7 mil	Range of Thicknesses Available

Mechanical Properties	Metric	English	Comments
Peel Strength	1.35 kN/m	7.70 pli	Copper; 1 oz. LoPro; IPC-TM-650 2.4.8

Thermal Properties	Metric	English	Comments
CTE, linear	17.0 µm/m-°C	9.44 µin/in-°F	Y-Direction; IPC-TM-650 2.4.41
	19.0 µm/m-°C	10.6 µin/in-°F	X-Direction; IPC-TM-650 2.4.41
	40.0 µm/m-°C	22.2 µin/in-°F	Z-Direction; IPC-TM-650 2.4.41
Thermal Conductivity	0.520 W/m-K	3.61 BTU-in/hr-ft ² -°F	ASTM C518
	@Temperature 80.0 °C	@Temperature 176 °F	
Glass Transition Temp, Tg	>= 280 °C	>= 536 °F	TMA; ASTM D3850
Decomposition Temperature	441 °C	826 °F	TGA; ASTM D3850

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.40e+19 ohm-cm	1.40e+19 ohm-cm	Condition A; IPC 2.5.17.1
	@Thickness 0.762 mm	@Thickness 0.0300 in	

Electrical Properties	5.50e+18 ohm Metric	5.50e+18 ohm English	Comments
	@Thickness 0.762 mm	@Thickness 0.0300 in	
Dielectric Constant	2.92 - 3.08	2.92 - 3.08	Z direction; IPC-TM-650 2.5.5.5
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
Dielectric Strength	24.4 kV/mm	620 kV/in	Z Direction; IPC-TM-650 2.5.6.2
Dissipation Factor	0.0023	0.0023	Z direction; IPC-TM-650 2.5.5.5
	@Frequency 2.50e+9 Hz	@Frequency 2.50e+9 Hz	
	0.0033	0.0033	Z direction; IPC-TM-650 2.5.5.5
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	

Descriptive Properties	Value	Comments
Dimensional Stability	-0.14 mm/m	X direction; IPC-TM-650, 2.4.39A
	-0.145 mm/m	Y direction; IPC-TM-650, 2.4.39A
PIM	< -154 dBc	[2]
Thermal Coefficient of Dielectric Constant	23 ppm/°C	IPC-TM-650 2.5.5.5; -50°C to 150°C; Z-Direction

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