

Fujipoly Industries Zebra[®] 2005 Carbon Sponge Self-Supported Connectors

Category : Polymer , Thermoset , Silicone

Material Notes:

Fujipoly Carbon Zebra Connectors and Low Temperature Carbon Zebra Connectors consist of alternating layers of conductive carbon filled and non-conductive silicone rubber. Contact density of the carbon Zebra Connector is greater than the contact pad density of either LCD or PCB. At least one conductive layer will connect when the two mating surfaces are aligned and compressed. The insulation layer will insure isolation from adjacent circuits. Information provided by Fujipoly Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Fujipoly-Industries-Zebra-2005-Carbon-Sponge-Self-Supported-Connectors.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	10	10	Support Sponge
	25	25	Support Rubber
	55	55	Insulating Layer
	73	73	Conductive Layer
Tensile Strength, Yield	2.90 MPa	421 psi	Support Sponge
	5.90 MPa	856 psi	Conductive Layer
	6.90 MPa	1000 psi	Support Rubber
	6.90 MPa	1000 psi	Insulating Layer
Elongation at Yield	100 %	100 %	Support Sponge
	100 %	100 %	Conductive Layer
	250 %	250 %	Support Rubber
	250 %	250 %	Insulating Layer
Tear Strength	5.00 kN/m	28.5 pli	Support Sponge
	7.00 kN/m	39.9 pli	Conductive Layer
	10.0 kN/m	57.1 pli	Support Rubber
	10.0 kN/m	57.1 pli	Insulating Layer

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 Å°C	257 Å°F	
Minimum Service Temperature, Air	-55.0 Å°C	-67.0 Å°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.0 ohm-cm	5.0 ohm-cm	Conductive Layer
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	Support Sponge
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	Support Rubber
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	Insulating Layer
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	Between Layers

Descriptive Properties	Value	Comments
Color	Black	Conductive Layer
	Light Blue	Support Rubber
	Off-White	Insulating Layer
	Pink	Support Sponge
Continuity Resistance	1000 ohms	
Current Carrying Capacity	50 mA	0.90mm by 0.90mm Pad

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