



## Data Sheet

### Product Description

<b>EMS Material Designation</b>	<b>B400R</b>
<b>ASTM Type</b>	<b>TM14</b>
<b>Number of layers</b>	<b>3</b>
<b>Standard Marking</b>	<b>TRUFLEX B400R</b>
<b>Remarks</b>	<b>Intermediate Resistivity, General Purpose 0 to 300°F (-20 to 150°C)</b>



### Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
<b>High Expansion Alloy</b>	Alloy B	22% Ni, 3% Cr, 75% Fe
<b>Center Layer</b>	Nickel	Ni
<b>Low Expansion Alloy</b>	Alloy 10	36% Ni, 64% Fe

### Thermostatic Properties

		<u>ENGLISH</u>		<u>METRIC</u>	
ASTM Flexivity	(50-200°F)	150	X 10 <sup>-7</sup> (in/in)/°F	--	
	(100°-300°F)	146	X 10 <sup>-7</sup> (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		27.0	X 10 <sup>-6</sup> (mm/mm)/°C
	(38°-149°C)	--		26.3	X 10 <sup>-6</sup> (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 300	°F		-20 to 150	°C
Useful Deflection Temperature Range	-100 to 700	°F		-70 to 370	°C
Recommended Maximum Temperature	1000	°F		540	°C
Electrical Resistivity @ 75°C (24°F)	378 to 422	*OCMF		0.628 to 0.701	μ-ohm-m

### Physical Properties

		<u>ENGLISH</u>		<u>METRIC</u>	
Density	0.295	Lb/in <sup>3</sup>		8.17	g/cm <sup>3</sup>
Modulus of Elasticity (E)	25	Msi		172	GPa

\*Ohms-Circular-Mil / Foot

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