



## Data Sheet

### Product Description

<b>EMS Material Designation</b>	<b>B300R</b>
<b>ASTM Type</b>	<b>TM15</b>
<b>Number of layers</b>	<b>3</b>
<b>Standard Marking</b>	<b>TRUFLEX B300R</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, Bal Fe
<b>Center Layer</b>	Nickel	Ni
<b>Low Expansion Alloy</b>	Alloy 10	36% Ni, Bal Fe

### Thermostatic Properties

		<u>ENGLISH</u>		<u>METRIC</u>	
ASTM Flexivity	(50-200°F)	149	X 10 <sup>-7</sup> (in/in)/°F	--	
	(100-300°F)	144	X 10 <sup>-7</sup> (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		26.8	X 10 <sup>-6</sup> (mm/mm)/°C
	(38-149°C)	--		25.9	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°F (24°C)	284 to 317	*OCMF		0.472 to 0.527	μ-ohm-m

### Physical Properties

		<u>ENGLISH</u>		<u>METRIC</u>	
Density	0.297	Lb/in <sup>3</sup>		8.22	g/cm <sup>3</sup>
Modulus of Elasticity (E)	25.5	Msi		176	GPa

\*Ohms-Circular-Mil / Foot

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