



## Data Sheet

### Product Description

<b>EMS Material Designation</b>	<b>B100R</b>
<b>ASTM Type</b>	<b>TM9</b>
<b>Number of layers</b>	<b>3</b>
<b>Standard Marking</b>	<b>TRUFLEX B100R</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, 64% Fe

### Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (50-200° F)	106	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (10-93° C)	--		19.1	$\times 10^{-6}$ (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	95 to 105	OCMF*	0.158 to 0.175	$\mu$ ohms-m

### Physical Properties

	ENGLISH		METRIC	
Density	0.308	Lb/in <sup>3</sup>	8.53	g/cm <sup>3</sup>
Modulus of Elasticity (E)	27.5	Msi	179	GPa

\*Ohms-Circular-Mil / Foot

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