



## Product Description

EMS Material Designation	B100R
ASTM Type	TM9
Numer of Layers	3
Standard Marking	TRUFLEX B100R
Remarks	Intermediate Resistivity, General Purpose 0 to 300° (-20 to 150°C)

## Chemical Composition

	Grade	Chemistry
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Center Layer	Nickel	Ni
Low Expansion Alloy	Alloy 10	36% Ni, 64% Fe

## Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity (50-200°F)	106 X 10 <sup>-7</sup> (in/in)/°F	
Specific Curvature (10-93°C)		19.1 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 / 20°C)	95 to 105 OCMF*	0.158 to 0.175 uohms-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