



Product Description

EMS Material Designation	BP10
ASTM Type	
Numer of Layers	3
Standard Marking	TRUFLEX BP10
Remarks	

Chemical Composition

	Grade	Chemistry
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Center Layer	Alloy P	72% Mn, 18% Cu, 10% Ni
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity (50-200°F)	145 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (10-93°C)		26.1 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 300°F	-20 to 150°C
Useful Deflection Temperature Range	-100 to 500°F	-70 to 260°C
Recommended Maximum Temperature	800°F	430 °C
Electrical Resistivity @ 75°F (24°C)	648 to 702 *OCMF	1.077 to 1.167 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.275 Lb/in ³	7.60 g/cm ³
Modulus of Elasticity (E)	19.5 Msi	134 GPa

*Ohms-Circular-Mil / Foot