



Product Description

EMS Material Designation	P300R
ASTM Type	
Numer of Layers	3
Standard Marking	TRUFLEX P300R
Remarks	Intermediate Resistivity, High Flexivity, General Use 0 to 400 °F

Chemical Composition

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

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity (50-300°F)	208 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (10-93°C)		37.4 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 400°F	-20 to 200°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)	285 to 315 *0CMF	0.474 to 0.524 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.277 Lb/in ³	7.66 g/cm ³
Modulus of Elasticity (E)	20 Msi	138 GPa

*Ohms-Circular-Mil / Foot