



Product Description

EMS Material Designation	P175R
ASTM Type	
Numer of Layers	3
Standard Marking	TRUFLEX P175R
Remarks	Low 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	C50500	Cu, 1.3% Sn
Low Expansion Alloy	Alloy 10	64% Fe, Bal Ni

Thermostatic Properties

ENGLISH

METRIC

ASTM Flexivity (100-300°F)	209 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (10-93°C)		37.6 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	500°F	260°C
Electrical Resistivity @ 75°F (24°C)	164.5 to 185.5 *OCMF	0.273 to 0.308 uohms-m

Physical Properties

ENGLISH

METRIC

Density	0.278 Lb/in ³	7.70 g/cm ³
Modulus of Elasticity (E)	19 Msi	131 GPa

*Ohms-Circular-Mil / Foot