



Data Sheet

Product Description

EMS Material Designation	P250R
ASTM Type	--
Number of layers	3
Standard Marking	TRUFLEX P250R
Remarks	Intermediate Resistivity, High Flexivity, General Use 0 to 400°F (-20 to 200°C)



Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
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	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (38-149°C)	--		37.6	$\times 10^{-6}$ (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 @ 275°F (24°C)	235 to 265	OCMF*	0.391 to 0.440	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.279	Lb/in ³	7.72	g/cm ³
Modulus of Elasticity (E)	19.0	Msi	131	GPa

*Ohms-Circular-Mil / Foot