



Data Sheet

Product Description

EMS Material Designation	P300R
ASTM Type	--
Number of layers	3
Standard Marking	TRUFLEX P300R
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	Steel	Fe
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (50-200°F)	208	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (10-93°C)	--		37.4	$\times 10^{-6}$ (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	800	°F	430	°C
Electrical Resistivity @ 75°F (24°C)	285 to 315	OCMF*	0.474 to 0.524	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.277	Lb/in ³	7.66	g/cm ³
Modulus of Elasticity (E)	20.0	Msi	138	GPa

*Ohms-Circular-Mil / Foot

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