



Data Sheet

Product Description

EMS Material Designation	P850R
ASTM Type	TM8
Number of layers	2
Standard Marking	TRUFLEX P850R
Remarks	Highest Resistivity



Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	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)	156	$\times 10^{-7}$ (in/in)/°F	--	
	(100-300°F)	159	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		28.1	$\times 10^{-6}$ (mm/mm)/°C
	(38-149°C)	--		28.6	$\times 10^{-6}$ (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		800	°F	430	°C
Electrical Resistivity @ 75°F (24°C)		808 to 893	OCMF*	1.34 to 1.48	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.267	Lb/in ³	7.38	g/cm ³
Modulus of Elasticity (E)	19.5	Msi	134	GPa

*Ohms-Circular-Mil / Foot

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