



Data Sheet

Product Description

EMS Material Designation	BP560R
ASTM Type	--
Number of layers	3
Standard Marking	--
Remarks	Medium Flexivity. Higher Resistivity



Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Center Layer	Alloy P	72% Mn, 18% Cu, 10% Ni
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (100-300°F)	148	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (38-149°C)	--		26.6	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 300	°F	-20 to 150	°C
Useful Deflection Temperature Range	-100 to 500	°F	-70 to 260	°C
Recommended Maximum Temperature	800	°F	427	°C
Electrical Resistivity @ 75°F (24° C)	529 to 591	OCMF*	0.879 to 0.982	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.285	Lb/in ³	7.89	g/cm ³
Modulus of Elasticity (E)	21.5	Msi	148	GPa

*Ohms-Circular-Mil / Foot

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