



## Data Sheet

### Product Description

EMS Material Designation	BP1
ASTM Type	--
Number of layers	3
Standard Marking	TRUFLEX BP1
Remarks	Better Corrosion Resistance and Joining Compared to P675R



### Chemical Composition

	Grade	Chemistry
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)	185	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (38-149°C)	--		33.3	$\times 10^{-6}$ (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	430	°C
Electrical Resistivity @ 75°F (24°C)	617 to 683	OCMF*	1.025 to 1.135	$\mu$ ohms-m

### Physical Properties

	ENGLISH		METRIC	
Density	0.278	Lb/in <sup>3</sup>	7.70	g/cm <sup>3</sup>
Modulus of Elasticity (E)	20.0	Msi	138	GPa

\*Ohms-Circular-Mil / Foot

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