



Data Sheet

Product Description

EMS Material Designation	SB175R
ASTM Type	--
Number of layers	3
Standard Marking	TRUFLEX SB175R
Remarks	Intermediate electrical resistivity with medium flexivity



Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Center Layer	Steel	Fe
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

	<u>ENGLISH</u>		<u>METRIC</u>	
ASTM Flexivity (50-200°F)	125	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (10-93°C)	--		22.5	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 300	°F	-20 to 150	°C
Useful Deflection Temperature Range	-100 to 700	°F	75 to 370	°C
Recommended Maximum Temperature	1000	°F	540	°C
Electrical Resistivity @ 75°F (24°C)	167 to 183	OCMF*	0.278 to 0.304	μ ohms-m

Physical Properties

	<u>ENGLISH</u>		<u>METRIC</u>	
Density	0.291	Lb/in ³	8.06	g/cm ³
Modulus of Elasticity (E)	26.0	Msi	179	GPa

*Ohms-Circular-Mil / Foot