



Product Description

EMS Material Designation	SB175R
ASTM Type	
Numer of Layers	3
Standard Marking	TRUFLEX SB175R
Remarks	Intermediate Electrical Resistivity with Medium Flexivity

Chemical Composition

	Grade	Chemistry
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

ENGLISH

METRIC

ASTM Flexivity (50-200°F)	125 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (10-93°C)		22.5 X 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 *0CMF	0.278 to 0.304 uohms-m

Physical Properties

ENGLISH

METRIC

Density	0.291 Lb/in ³	8.06 g/cm ³
Modulus of Elasticity (E)	26.0 Msi	179 GPa

*Ohms-Circular-Mil / Foot