

Product Description

EMS Material Designation	E4
ASTM Type	TM4
Numer of Layers	2
Standard Marking	TRUFLEX E4
Remarks	Best all purpose 250 to 700°F (120 to 370°C)

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy E	25% Ni, 8.5% Cr, Bal Fe
Low Expansion Alloy	Alloy 40	45% Ni, Bal Fe

Thermostatic Properties

ENGLISH

METRIC

ASTM Flexivity	(50-200°F)	86 X 10 ⁻⁷ (in/in)/°F	
	(100 to 300°F)	86 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature	(10-93°C)		15.5 X 10 ⁻⁶ (mm/mm)/°C
	(38 to 149°C)		15.5 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range		250 to 700°F	120 to 370°C
Useful Deflection Temperature Range		-100 to 1000°F	-70 to 540°C
Recommended Maximum Temperature		1000°F	540°C
Electrical Resistivity @ 75°F (24°C)		384 to 416 *OCMF	0.638 to 0.691 uohms-m

Physical Properties

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METRIC

Density	0.296 Lb/in ³	8.18 g/cm ³
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot