

Product Description

EMS Material Designation	LA1
ASTM Type	TM4
Numer of Layers	2
Standard Marking	TRUFLEX LA1
Remarks	Good all purpose 0 to 300°F

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy LA	20% Ni, 6% Mn, Bal Fe
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity (50-200°F)	158 X 10 ⁻⁷ (in/in)/°F	
(100 to 300°F)	156 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (10-93°C)		28.4 X 10 ⁻⁶ (mm/mm)/°C
(38 to 149°C)		28.1 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	-70 to 370°C
Recommended Maximum Temperature	1000°F	540°C
Electrical Resistivity @ 75°F (24°C)	456 to 494 *OCMF	0.758 to 0.821 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.292 Lb/in ³	8.07 g/cm ³
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot