



Data Sheet

Product Description

EMS Material Designation	LA1
ASTM Type	TM29
Number of layers	2
Standard Marking	TRUFLEX LA1
Remarks	Good all purpose 0-300°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	$\times 10^{-7}$ (in/in)/°F	--	
	(100-300°F)	156	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		28.4	$\times 10^{-6}$ (mm/mm)/°C
	(38-149°C)	--		28.1	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 300	°F		-20 to 150	°C
Useful Deflection Temperature Range	-100 to 700	°F		-70 to 370	°C
Recommended Maximum Temperature	1000	°F		540	°C
Electrical Resistivity @ 75° (24°C)	456 to 494	OCMF*		0.758 to 0.821	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.292	Lb/in ³	8.07	g/cm ³
Modulus of Elasticity (E)	25.0	Msi	172	GPa

*Ohms-Circular-Mil / Foot