



Data Sheet

Product Description

EMS Material Designation	LA50R10
ASTM Type	--
Number of layers	3
Standard Marking	TRUFLEX LA50R10
Remarks	Low electrical resistivity with medium flexivity



Chemical Composition

	Grade	Chemistry
High Expansion Alloy	Alloy LA	20% Ni, 6% Mn, Bal Fe
Center Layer	Copper	Cu
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (100-300°F)	151	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (38-149°C)	--		27.2	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 300	°F	-20 to 150	°C
Useful Deflection Temperature Range	-100 to 500	°F	-70 to 260	°C
Recommended Maximum Temperature	700	°F	370	°C
Electrical Resistivity @ 75°F (24°C)	46.25 to 53.75	OCMF*	0.077 to 0.089	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.298	Lb/in ³	8.25	g/cm ³
Modulus of Elasticity (E)	22.5	Msi	155	GPa

*Ohms-Circular-Mil / Foot