



Data Sheet

Product Description

EMS Material Designation	LA100R10
ASTM Type	--
Number of layers	3
Standard Marking	--
Remarks	Low electrical resistivity with medium flexivity



Chemical Composition

	<u>Weight %</u>	<u>Chemistry</u>
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 (68-266°F)	157	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (20-130°C)	--		28.3	$\times 10^{-6}$ (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)	95.1 to 109.5	OCMF*	0.158 to 0.182	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.294	Lb/in ³	8.14	g/cm ³
Modulus of Elasticity (E)	23	Msi	159	GPa

*Ohms-Circular-Mil / Foot

Rev 0 - 11/21/2014