



Data Sheet

Product Description

EMS Material Designation	LA90R10
ASTM Type	--
Number of layers	3
Standard Marking	TRUFLEX LA90R10
Remarks	Low electrical resistivity with medium flexivity



Chemical Composition

	<u>Grade</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	(50-200°F)	159	$\times 10^{-7}$ (in/in)/°F	--	
	(100-300°F)	152	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		28.6	$\times 10^{-6}$ (mm/mm)/°C
	(38-149°C)	--		27.4	$\times 10^{-6}$ (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)	84 to 96	OCMF*		0.140 to 0.160	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.296	Lb/in ³	8.19	g/cm ³
Modulus of Elasticity (E)	23	Msi	159	GPa

*Ohms-Circular-Mil / Foot

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