



## Data Sheet

### Product Description

EMS Material Designation	LA210R
ASTM Type	--
Number of layers	3
Standard Marking	TRUFLEX LA210R
Remarks	Intermediate electrical resistivity with medium flexibility



### Chemical Composition

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

### Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (100-300°F)	153	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (38-149°C)	--		27.5	$\times 10^{-6}$ (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°F (24°C)	198.5 to 221.5	OCMF*	0.330 to 0.368	$\mu$ ohms-m

### Physical Properties

	ENGLISH		METRIC	
Density	0.296	Lb/in <sup>3</sup>	8.19	g/cm <sup>3</sup>
Modulus of Elasticity (E)	25.0	Msi	172	GPa

\*Ohms-Circular-Mil / Foot

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