



## Data Sheet

### Product Description

<b>EMS Material Designation</b>	<b>LA70R10</b>
<b>ASTM Type</b>	--
<b>Number of layers</b>	<b>3</b>
<b>Standard Marking</b>	<b>TRUFLEX LA70R10</b>
<b>Remarks</b>	<b>Low electrical resistivity with medium flexivity</b>



### Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
<b>High Expansion Alloy</b>	Alloy LA	20% Ni, 6% Mn, Bal Fe
<b>Center Layer</b>	Copper	Cu
<b>Low Expansion Alloy</b>	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 500	°F	-70 to 260	°C
Recommended Maximum Temperature	700	°F	370	°C
Electrical Resistivity @ 75°F (24°C)	64.75 to 75.25	OCMF*	0.108 to 0.125	$\mu$ ohms-m

### Physical Properties

	ENGLISH		METRIC	
Density	0.297	Lb/in <sup>3</sup>	8.22	g/cm <sup>3</sup>
Modulus of Elasticity (E)	23.0	Msi	158	GPa

\*Ohms-Circular-Mil / Foot

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