Engineered Materials Solutions
Wickeder Group

Data Sheet

Product Description

EMS Material Designation	**LA125R10**
ASTM Type	**--**
Number of layers	**3**
Standard Marking	**TRUFLEX LA125R10**
Remarks	**Intermediate electrical resistivity with medium flexivity**

Chemical Composition

	Grade	**Chemistry**
High Expansion Alloy	Alloy LA	20% Ni, 6% Mn, Bal Fe
Center Layer	C50500	Cu-1.3%Sn
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties	**ENGLISH**		**METRIC**	
ASTM Flexivity (100-300°F)	140	x 10^{-7} (in/in)/°F	--	
Specific Curvature (38-149°C)	--		25.2	X 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	500	°F	260	°C
Electrical Resistivity @ 75°F (24°C)	115.6 to 134.4	OCMF*	0.192 to 0.223	μohms-m

Physical Properties	**ENGLISH**		**METRIC**	
Density	0.296	Lb/in^3	8.19	g/cm^3
Modulus of Elasticity (E)	23.0	Msi	159	GPa

***Ohms-Circular-Mil / Foot**