



Data Sheet

Product Description

EMS Material Designation	LA55R30
ASTM Type	--
Number of layers	3
Standard Marking	--
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 30	42% Ni, Bal Fe

Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (50-200°F)	120	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (10-93°C)	--		21.6	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	200 to 550	°F	93 to 288	°C
Useful Deflection Temperature Range	-100 to 700	°F	-70 to 370	°C
Recommended Maximum Temperature	700	°F	370	°C
Electrical Resistivity @ 75°F (24°C)	50 to 58	OCMF*	0.083 to 0.096	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.298	Lb/in ³	8.25	g/cm ³
Modulus of Elasticity (E)	22	Msi	152	GPa

*Ohms-Circular-Mil / Foot

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