



Data Sheet

Product Description

EMS Material Designation	LA55R20
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 20	40% Ni, Bal Fe

Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (50-200°F)	139	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (10-93°C)	--		25.0	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	100 to 500	°F	38 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	0.297	Lb/in ³	8.22	g/cm ³
Modulus of Elasticity (E)	22.0	Msi	152	GPa

*Ohms-Circular-Mil / Foot