

Product Description

EMS Material Designation	F90R
ASTM Type	TM28
Numer of Layers	3
Standard Marking	TRUFLEX F90R
Remarks	Low Electrical Resistivity and Medium Flexivity

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Center Layer	Copper	Cu
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity (50-200°F)	148 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (10-93°C)		26.6 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	700°F	370°C
Electrical Resistivity @ 75°F (24°C)	85.5 to 94.5 OCMF*	0.142 to 0.157 u-ohm-m

Physical Properties

	ENGLISH	METRIC
Density	0.298 Lb/in ³	8.24 g/cm ³
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot