

## Product Description

EMS Material Designation	F20R
ASTM Type	TM24
Numer of Layers	3
Standard Marking	TRUFLEX F20R
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)	131 X 10 <sup>-7</sup> (in/in)/°F	
Specific Curvature	(10-93°C)		23.6 X 10 <sup>-6</sup> (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)		18 to 22 *OCMF	0.030 to 0.037 uohms-m

## Physical Properties

### ENGLISH

### METRIC

Density	0.309 Lb/in <sup>3</sup>	8.57 g/cm <sup>3</sup>
Modulus of Elasticity (E)	20 Msi	138 GPa

\*Ohms-Circular-Mil / Foot