



## Data Sheet

### Product Description

EMS Material Designation	P30RC
ASTM Type	--
Number of layers	4
Standard Marking	--



Remarks **Low electrical resistivity with high flexivity. Copper outer layer for brazeability or weldability**

### Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
Outer Layer	Copper	Cu
High Expansion Alloy	Alloy P	72% Mn, 18% Cu, 10% Ni
Center Layer	Copper	Cu
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

### Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (50-200°F)	188	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (10-93°C)	--		33.8	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 400	°F	-20 to 200	°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)	27 to 33	OCMF*	0.045 to 0.055	$\mu$ ohms-m

### Physical Properties

	ENGLISH		METRIC	
Density	0.295	Lb/in <sup>3</sup>	8.17	g/cm <sup>3</sup>
Modulus of Elasticity (E)	19.0	Msi	131	GPa

\*Ohms-Circular-Mil / Foot

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