P30R

Engineered Materials Solutions
Wickeder Group

Product Description

EMS Material Designation	**P30R**
ASTM Type	**TM31**
Numer of Layers	**3**
Stardard Marking	**TRUFLEX P30R**
Remarks	**Low Electrical Resistivity with High Flexivity**

Chemical Composition

	Grade	Chemistry
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 Flextivity	(50-300°F)	189 X 10^{-7} (in/in)/°F	
Specific Curvature	(10-93°C)		34.0 X 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 uohms-m

Physical Properties	ENGLISH	METRIC
Density	0.296 Lb/in^3	8.19 g/cm^3
Modulus of Elasticity (E)	19 Msi	131 GPa

***Ohms-Circular-Mil / Foot**

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