Engineered Materials Solutions
Wickeder Group

Data Sheet

Product Description

EMS Material Designation	**P350R**
ASTM Type	**--**
Number of layers	**3**
Standard Marking	**TRUFLEX P350R**
Remarks	**Intermediate Resistivity, High Flexivity, General Use 0 to 400°F (-20 to 200°C)**

Chemical Composition

	Grade	**Chemistry**
High Expansion Alloy	Alloy P	72% Mn, 18% Cu, 10% Ni
Center Layer	Steel	Fe
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties	**ENGLISH**		**METRIC**	
ASTM Flexivity (50-200°F)	213	x 10^{-7} (in/in)/°F	--	
Specific Curvature (10-93°C)	--		38.3	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	800	°F	430	°C
Electrical Resistivity @ 75°F (24°C)	333 to 367	OCMF*	0.553 to 0.610	µohms-m

Physical Properties	**ENGLISH**		**METRIC**	
Density	0.276	Lb/in^3	7.65	g/cm^3
Modulus of Elasticity (E)	20	Msi	138	GPa

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