



Data Sheet

Product Description

EMS Material Designation	P35R
ASTM Type	--
Number of layers	3
Standard Marking	TRUFLEX P35R
Remarks	Low electrical resistivity with high flexivity



Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
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)	200	$\times 10^{-7}$ (in/in)/°F	--	
	(100-300°F)	190	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		36.0	$\times 10^{-6}$ (mm/mm)/°C
	(38-149°C)	--		34.2	$\times 10^{-6}$ (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)		32 to 38	OCMF*	0.053 to 0.063	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.291	Lb/in ³	8.05	g/cm ³
Modulus of Elasticity (E)	19.0	Msi	131	GPa

*Ohms-Circular-Mil / Foot