F125R

Engineered Materials Solutions
Wickeder Group

Product Description

EMS Material Designation	**F125R**
ASTM Type	
Numer of Layers	**3**
Stardard Marking	**TRUFLEX F125R**
Remarks	**Intermediate Electrical Resistivity and Medium Flexivity**

Chemical Composition

	Grade	Chemistry
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 Flextivity	(50-200°F)	148 X 10^{-7} (in/in)/°F	
Specific Curvature	(10-93°C)		26.6 X 10^{-6} (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)		119 to 131 *OCMF	0.198 to 0.218 uohms-m

Physical Properties	ENGLISH	METRIC
Density	0.297 Lb/in^3	8.22 g/cm^3
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot

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