B125R

Engineered Materials Solutions
Wickeder Group

Product Description

EMS Material Designation	**B125R**
ASTM Type	**TM10**
Numer of Layers	**3**
Stardard Marking	**TRUFLEX B125R**
Remarks	**Intermediate Resistivity, General Purpose 0 to 300°F (-20 to 150°C)**

Chemical Composition

	Grade	Chemistry
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Center Layer	Nickel	Ni
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

		ENGLISH	METRIC
ASTM Flextivity	(50-200°F)	124 X 10^{-7} (in/in)/°F	
	(100-300°F)	127 X 10^{-7} (in/in)/°F	
Specific Curvature	(10-93°C)		22.3 X 10^{-6} (mm/mm)/°C
	(38-149°C)		22.9 X 10^{-6} (mm/mm)/°C
Maximum Sensitivity Temperature Range		0 to 300°F	-20 to 150°C
Useful Deflection Temperature Range		-100 to 700°F	-70 to 370°C
Recommended Maximum Temperature		1000°F	540°C
Electrical Resistivity @ 75°F (24°C)		118 to 132 OCMF*	0.196 to 0.219 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.305 Lb/in^3	8.44 g/cm^3
Modulus of Elasticity (E)	27 Msi	186 GPa

*Ohms-Circular-Mil / Foot

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