Engineered Materials Solutions
Wickeder Group

Data Sheet

Product Description

EMS Material Designation	**SB250R**
ASTM Type	**--**
Number of layers	**3**
Standard Marking	**TRUFLEX SB250R**
Remarks	**Intermediate electrical resistivity with medium flexivity**

Chemical Composition

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

Thermostatic Properties

		ENGLISH		METRIC	
ASTM Flexivity	(50-200°F)	144	x 10^{-7} (in/in)/°F	--	
	(100-300°F)	143	x 10^{-7} (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		25.9	X 10^{-6} (mm/mm)/°C
	(38-149°C)	--		25.7	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)		238 to 262	OCMF*	0.396 to 0.435	µohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.293	Lb/in^3	8.1	g/cm^3
Modulus of Elasticity (E)	25.5	Msi	176	GPa

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

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