B350R

Engineered Materials Solutions
Wickeder Group

Product Description

EMS Material Designation	**B350R**
ASTM Type	**TM16**
Numer of Layers	**3**
Stardard Marking	**TRUFLEX B350R**
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, 75% Fe
Center Layer	Nickel	Ni
Low Expansion Alloy	Alloy 10	36% Ni, 64% Fe

Thermostatic Properties

		ENGLISH	METRIC
ASTM Flextivity	(50-200°F)	149 X 10^{-7} (in/in)/°F	
	(100-300°F)	145 X 10^{-7} (in/in)/°F	
Specific Curvature	(10-93°C)		26.8 X 10^{-6} (mm/mm)/°C
	(38-149°C)		26.1 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)		331 to 369 OCMF*	0.550 to 0.613 u-ohm-m

Physical Properties

	ENGLISH	METRIC
Density	0.295 Lb/in^3	8.17 g/cm^3
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot

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