F55R20

Engineered Materials Solutions
Wickeder Group

Product Description

EMS Material Designation	**F55R20**
ASTM Type	
Numer of Layers	**3**
Stardard Marking	
Remarks	**Low 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 20	40% Ni, Bal Fe

Thermostatic Properties

		ENGLISH	METRIC
ASTM Flextivity	(50-200°F)	130 X 10^{-7} (in/in)/°F	
Specific Curvature	(10-93°C)		23.4 X 10^{-6} (mm/mm)/°C
Maximum Sensitivity Temperature Range		100 to 500°F	38 to 288°C
Useful Deflection Temperature Range		-100 to 700°F	-70 to 370°C
Recommended Maximum Temperature		700°F	370°C
Electrical Resistivity @ 75°F (24°C)		50 to 58 OCMF*	0.083 to 0.096 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.300 Lb/in^3	8.53 g/cm^3
Modulus of Elasticity (E)	22 Msi	152 GPa

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

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