F50R

Engineered Materials Solutions
Wickeder Group

Product Description

EMS Material Designation	**F50R**
ASTM Type	**TM26**
Numer of Layers	**3**
Stardard Marking	**TRUFLEX F50R**
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 10	36% Ni, Bal Fe

Thermostatic Properties

		ENGLISH	METRIC
ASTM Flextivity	(50-200°F)	147 X 10^{-7} (in/in)/°F	
	(100-300°F)	143 X 10^{-7} (in/in)/°F	
Specific Curvature	(10-93°C)		26.5 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 500°F	-70 to 260°C
Recommended Maximum Temperature		700°F	370°C
Electrical Resistivity @ 75°F (24°C)		46.5 to 53.5 OCMF*	0.077 to 0.089 u-ohm-m

Physical Properties

	ENGLISH	METRIC
Density	0.300 Lb/in^3	8.32 g/cm^3
Modulus of Elasticity (E)	24 Msi	165 GPa

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

America
Dilip Patil
Product Manager
Phone: +1 508 342 2317
Email: dpatil@emsclad.com

America
Vladimir Simkhovich
Product Manager
Phone: +1 610 562 3841
Email: vsimkhovich@emsclad.com

Asia
C.W. Kong
General Manager
Phone: +86 514 8891 6888
Email: c.w.kong@wickedergroup.com.cn

Europe
James Craggs
European Business Manager
Phone: +44 (0)7799 358 150
Email: jcraggs@emsclad.com