

MarkeTech Cu/Mo/Cu 1:2:1 Laminated Sheet

Category : Metal , Metal Matrix Composite , Nonferrous Metal , Molybdenum Alloy

Material Notes:

Cu/MoCu sheets have very high in-plane thermal conductivity provide by layers of Cu and low CTEs provided by the inner layer of molybdenum. These laminated sheets spread heat from a concentrated heat source and subsequently dissipate the heat through the layers. Used as heat sinks.Data provided by the supplier, MarkeTech International.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-CuMoCu-121-Laminated-Sheet.php

Physical Properties	Metric	English	Comments
Density	9.48 - 9.68 g/cc	0.342 - 0.350 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	8.50 - 8.90 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.72 - 4.94 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 212 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	200 - 210 W/m-K	1390 - 1460 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	z direction
	270 - 280 W/m-K	1870 - 1940 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	x-y direction
Maximum Service Temperature, Air	850 $\text{Å}^\circ\text{C}$	1560 $\text{Å}^\circ\text{F}$	resists repeated cycles

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