

MarkeTech Cu/Mo/Cu 13:74:13 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-137413-Laminated-Sheet.php

Physical Properties	Metric	English	Comments
Density	9.78 - 9.98 g/cc	0.353 - 0.361 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	5.70 - 6.10 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.17 - 3.39 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 212 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	160 - 170 W/m-K	1110 - 1180 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	z direction
	190 - 200 W/m-K	1320 - 1390 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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