

Materion moldMAX[®] HH High Hardness Beryllium Copper Alloy

Category : Metal , Nonferrous Metal , Beryllium Alloy , Copper Alloy

Material Notes:

Description: moldMAX[®] and PROtherm[®] are Brush Wellman's copper beryllium alloys specifically designed for the plastic processing industry. These alloys provide a combination of thermal conductivity and strength, which allow for :Shorter cycle times and reduced part costsImproved part quality leading to a substantially lower scrap rate3 times faster machining rates resulting in lower cost molds and shorter delivery timesProcessing that is similar to tool steels with no substantial processing changes requiredOne million + cycles leading to lower maintenance costsA reduction in cost for MoldmakersReduced cost and high part quality at a lower piece price for MoldersmoldMAX[®] provides strength and wear resistance similar to that of many tool steels, and a thermal conductivity that is three to four times greater than steel and comparable to aluminum. moldMAX[®] is typically specified for full cavity and core inserts, blow mold pinch offs, neck rings and handle inserts; cavity and core sub inserts; injection mold components; and hot runner system injection nozzles and manifolds. Information supplied by Brush Wellman Engineered Materials.Brush Engineered Materials Inc. changed its name to Materion Corporation in March 2011.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Materion-moldMAX-HH-High-Hardness-Beryllium-Copper-Alloy.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	40	40	
Tensile Strength, Ultimate	1280 MPa	185000 psi	
Elongation at Break	6 %	6 %	
Compressive Yield Strength	1070 MPa	155000 psi	
Charpy Impact	5.42 J	4.00 ft-lb	V-Notch

Thermal Properties	Metric	English	Comments
CTE, linear	17.5 $\mu\text{m/m}\cdot\text{C}^\circ$	9.70 $\mu\text{in/in}\cdot\text{F}^\circ$	
	@Temperature 20.0 C°	@Temperature 68.0 F°	
Thermal Conductivity	104 W/m-K	720 BTU-in/hr-ft ² · F°	

Component Elements Properties	Metric	English	Comments
Beryllium, Be	1.8 %	1.8 %	
Copper, Cu	98.2 %	98.2 %	

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