



ECOMold Products

*Breaking new ground in the world of plastics
with two innovative copper alloys:*

ECOMold® 95

ECOMold® 135

Experience a whole new world of high thermal conductivity mold materials for your most demanding plastics processing applications.

Unprecedented Hardness and Thermal Conductivity Combination:

- Improve Molding Productivity
- Improve Plastic Part Quality
- Lower Machining Costs
- Longer Mold Life



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ECOMold® copper alloys are engineered specifically for plastics industry applications. These ground-breaking new alloys provide the most desirable combinations of hardness and thermal conductivity, as compared with other commonly used materials.

The unique properties of ECOMold® copper mold materials are attained through specially developed manufacturing processes and complex alloy compositions. ECOMold® copper alloys are beryllium-free.

ECOMold®

BERYLLIUM-FREE

Improve the performance of your mold tools with ECOMold® Copper Alloys.

ECOMold® alloys are ideal for use in plastics processing. The high thermal conductivity and unique properties of ECOMold® copper alloys reduce costs and significantly improve mold tool performance.

ECOMold® MATERIAL PROPERTIES ¹

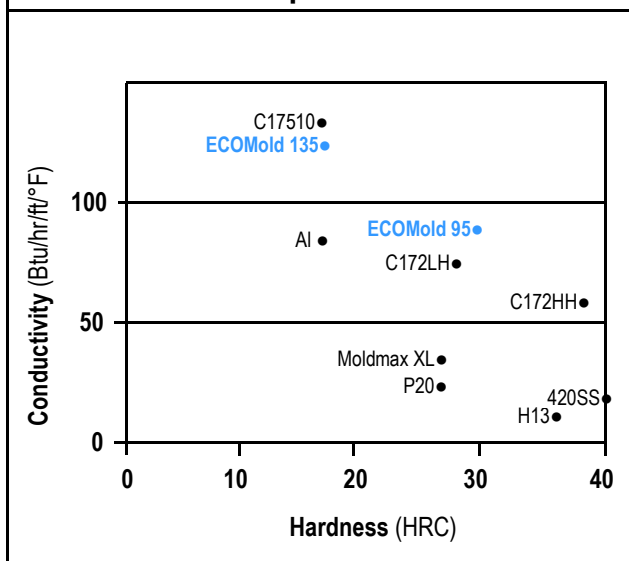
	Thermal Conductivity (Btu/hr./ft./°F)	Hardness (Rockwell ²)	Tensile Strength (ksi)	Yield Strength (0.2% offset ksi)
ECOMold® 95	95	30 RC	136	126
ECOMold® 135	135	96 RB	100	75
Protherm® (C17510)	145	96RB	110	90
Moldmax® HH (C17200)	60	40RC	190	155
Moldmax® LH (C17200)	75	30 RC	170	140
P20	22	28-50 RC	146	110
Moldmax® XL	35	28 RC	110	100
H13	14	38-54 RC	206	185
420 Stainless Steel	12	50-52 RC	95	60
Aluminum	90	17 RC	75	67

* Moldmax & Protherm are registered trademarks of Brush Wellman, Inc. ¹ Typical values ² Values converted from Brinell Hardness

ECOMold® Standard Plate Sizes

ECOMold® 95	ECOMold® 135
1/2" Thickness	1/2" Thickness
3/4"	3/4"
1"	1"
1-1/2"	1-1/2"
2"	2"
2-1/2"	2-1/2"
3"	3"
3-1/2"	3-1/2"
4"	4"
5"	6"
	8"
Intermediate sizes available upon request	

Mold Material Comparison



ECOMold® Applications

ECOMold® 95

for applications demanding higher hardness levels

Cores, Core Inserts, Cavities - Inserts, Runnerless Molding Systems, Hot Runner Nozzles, Core Pins, Blow Pins, Ejector Sleeve Core Combinations, Sprue Bushings, Neck and Tail Pinch Offs

ECOMold® 135

for applications demanding higher thermal conductivity

Cores, Core Inserts, Cavities - Inserts, Core Pins, Blow Pins, Ejector Pins, Lifters, Sleeves, Sprue Bushings

Please visit us on the web for machining, surface finish and other technical recommendations:

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