



ECOMold® 95

*Copper Mold Material
for
Plastics Applications*

Mechanical & Physical Properties *Nominal Values*

Material Description¹

ECOMold® 95 is an innovative, new copper alloy, engineered specifically to solve demanding plastics molding applications.

ECOMold® 95 offers unprecedented combinations of Thermal Conductivity, Hardness and Tensile Strength. This unique mold material has proven to be highly effective for injection molding, blow molding, thermoforming and other plastic processing applications.

Mechanical Properties

Hardness – Rockwell ²	30 Rc
Hardness – BHN (3000 kg)	285
Tensile Strength (ksi)	130
Yield Strength – 0.2% offset (ksi)	120
Elongation - % in 2"	4
Proportional Limit (ksi).....	105
Compressive Strength – 0.1% permanent set (ksi)	100
Impact-Charpy V-Notch (ft. – lbs.)	7
Modulus of Elasticity – Tension (ksi)	21,000

Physical Properties

Density (lbs./in. ³)	0.318
Specific Gravity	8.81
Coefficient of Thermal Expansion (in./in./°F)	8.7 x 10 ⁻⁶
Electrical Conductivity (% IACS)	35
Thermal Conductivity (Btu/ft./hr./°F)	95

¹ Typical values

² Value converted from Brinell Hardness per ASTM E-10



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