



ECOMold® 135

*Copper Mold Material
for
Plastics Applications*

Mechanical & Physical Properties Nominal Values

Material Description

ECOMold® 135 is a unique copper alloy, featuring thermal conductivity superior to all other commonly used mold materials.

Moldmakers and processors alike have found ECOMold® 135 to be an ideal mold material for injection molding, blow molding, thermoforming and other plastic processing applications.

Mechanical Properties

Hardness – Rockwell.....	94 Rb
Hardness – BHN (3000 kg)	210
Tensile Strength (ksi)	100
Yield Strength – 0.2% offset (ksi)	75
Elongation - % in 2"	13
Proportional Limit (ksi).....	54
Compressive Strength – 0.1% permanent set (ksi)	80
Impact-Charpy V-Notch (ft. – lbs.).....	25
Modulus of Elasticity – Tension (ksi)	16,000

Physical Properties

Density (lbs./in. ³)	0.315
Specific Gravity	8.71
Coefficient of Thermal Expansion (in./in./°F)	9.7 x 10 ⁻⁶
Electrical Conductivity (% IACS)	45 minimum
Thermal Conductivity (Btu/ft./hr./°F)	135



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