

## ECOMold 135 Copper Mold Material

Category : Metal , Nonferrous Metal , Copper Alloy

### Material Notes:

ECOMold® copper alloys (beryllium-free) are engineered specifically for plastics industry applications. ECOMold® 135 has superior thermal conductivity compared to other common mold materials. This mold material has proven to be highly effective for injection molding, blow molding, thermoforming, and other plastic processing applications. ECOMold® 95 is used in applications requiring a high thermal conductivity level such as cores, core inserts, cavities - inserts, core pins, blow pins, ejector pins, lifters, sleeves, and sprue bushings. Information provided by ECOMold.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ECOMold-135-Copper-Mold-Material.php](http://www.lookpolymers.com/polymer_ECOMold-135-Copper-Mold-Material.php)

Physical Properties	Metric	English	Comments
Density	8.72 g/cc	0.315 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	210	210	3000 kg
Hardness, Rockwell B	94	94	
Tensile Strength, Ultimate	689 MPa	100000 psi	
Tensile Strength, Yield	372 MPa	54000 psi	Proportional Limit
	517 MPa	75000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	13 %	13 %	in 2"
Modulus of Elasticity	110 GPa	16000 ksi	Tension
Compressive Strength	552 MPa	80000 psi	0.1% Permanent Set
Charpy Impact	33.9 J	25.0 ft-lb	V-Notch

Thermal Properties	Metric	English	Comments
CTE, linear	17.5 μm/m-°C	9.70 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	233 W/m-K	1620 BTU-in/hr-ft <sup>2</sup> -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 0.00000380 ohm-cm	<= 0.00000380 ohm-cm	

Electrical Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China