

ECOMold 95 Copper Mold Material

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

ECOMold® copper alloys (beryllium-free) are designed specifically for plastics industry applications. ECOMold® 95 has a superior combination of thermal conductivity, hardness, and tensile strength. This mold material has proven to be highly effective for injection molding, blow molding, thermoforming, and other plastic processing uses. ECOMold® 95 is used in applications requiring a high hardness level such as cores, core inserts, cavities - inserts, runnerless molding systems, hot runner nozzles, core pins, blow pins, ejector sleeve core combinations, sprue bushings, and neck and tail pinch offs. Information provided by ECOMold.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ECOMold-95-Copper-Mold-Material.php

Physical Properties	Metric	English	Comments
Density	8.69 g/cc	0.314 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	286	286	3000 kg
Hardness, Rockwell C	30	30	
Tensile Strength, Ultimate	896 MPa	130000 psi	
Tensile Strength, Yield	724 MPa	105000 psi	Proportional Limit
	827 MPa	120000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	4.0 %	4.0 %	in 2"
Modulus of Elasticity	145 GPa	21000 ksi	Tension
Compressive Strength	689 MPa	100000 psi	0.1% Permanent Set
Charpy Impact	9.49 J	7.00 ft-lb	V-Notch

Thermal Properties	Metric	English	Comments
CTE, linear	15.7 µm/m-°C	8.70 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	164 W/m-K	1140 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000490 ohm-cm	0.00000490 ohm-cm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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