

Performance Alloys MoldStar® 22 (PAS 22) Bronze Mold Alloy

Category : Metal , Nonferrous Metal , Copper Alloy , Bronze

Material Notes:

Description: MoldStar® 21 bronze alloy provides good bearing qualities and resistance to wear, abrasion, fatigue, deformation and corrosion. Applications: Ejector Sleeves Lifter Blades Thin Wall Applications Ejector and Core Pins Guide Pin and Leader Pin Bushings Unscrewing Mold Components Information provided by Performance Alloys.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Performance-Alloys-MoldStar-22-PAS-22-Bronze-Mold-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.06 g/cc	0.255 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	331	331	3000kg
Hardness, Rockwell C	35	35	
Tensile Strength at Break	724 MPa	105000 psi	
Tensile Strength, Yield	427 MPa	62000 psi	
Elongation at Break	0.50 %	0.50 %	in 2"
Compressive Strength	510 MPa	74000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.2 μm/m-°C	9.00 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	43.2 W/m-K	300 BTU-in/hr-ft ² -°F	
	@Temperature 15.6 °C	@Temperature 60.0 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	13.8 %	13.8 %	
Copper, Cu	78.7 %	78.7 %	
Iron, Fe	5.0 %	5.0 %	
Other	2.5 %	2.5 %	

Descriptive Properties	Value	Comments
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Thermal diffusivity at 68°F Descriptive Properties	0.62 ft ² /hr Value	Comments
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