

Performance Alloys MoldStar® 21 (PAS 21) 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: Lifter Blades Slides Gibs Wear Plates Ejector Sleeves and Bushings Guide Pin and Leader Pin Bushings Information provided by Performance Alloys.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Performance-Alloys-MoldStar-21-PAS-21-Bronze-Mold-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.20 g/cc	0.260 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	286	286	3000kg
Hardness, Rockwell C	29	29	
Tensile Strength at Break	758 MPa	110000 psi	
Tensile Strength, Yield	414 MPa	60000 psi	
Elongation at Break	1.0 %	1.0 %	in 2"
Compressive Strength	421 MPa	61000 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	12.8 %	12.8 %	
Copper, Cu	80.2 %	80.2 %	
Iron, Fe	4.5 %	4.5 %	
Other	2.5 %	2.5 %	

Descriptive Properties	Value	Comments
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Thermal diffusivity at 68°F Descriptive Properties	0.62 ft²/hr Value	Comments
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