

Performance Alloys MoldStar® 18 (PAS 18) Bronze Mold Alloy

Category : Metal , Nonferrous Metal , Copper Alloy , Bronze

Material Notes:

Description: MoldStar® 18 bronze alloy provides good bearing qualities and resistance to wear, abrasion, fatigue, deformation and corrosion. Applications: SlidesGibsWear PlatesMold Locking DevicesSleeve BearingsGuide Pin BushingsGuide RailsInformation provided by Performance Alloys.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Performance-Alloys-MoldStar-18-PAS-18-Bronze-Mold-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.45 g/cc	0.269 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	192	192	3000kg
Hardness, Rockwell B	92	92	
Tensile Strength at Break	724 MPa	105000 psi	
Tensile Strength, Yield	359 MPa	52000 psi	
Elongation at Break	14 %	14 %	in 2"
Compressive Strength	262 MPa	38000 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	62.3 W/m-K	432 BTU-in/hr-ft ² -°F	
	@Temperature 15.6 °C	@Temperature 60.0 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	10.5 %	10.5 %	
Copper, Cu	85.5 %	85.5 %	
Iron, Fe	3.5 %	3.5 %	
Other	0.50 %	0.50 %	

Descriptive Properties	Value	Comments
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Thermal diffusivity at 68°F Descriptive Properties	0.97 ft ² /hr Value	Comments
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