

Schmolz + Bickenbach Holder Block Plastic Mold Steel

Category : Metal , Ferrous Metal , Tool Steel , Mold Steel

Material Notes:

Description: Holder Block is a modified AISI-4130 material with higher chromium and molybdenum content specifically designed holder steel for molds and dies and The material is forged on a 5000 ton press assuring maximum deformation during the forging process
 Characteristics: Good machinability
 Applications: Die holders and Frames for plastic molds
 Information provided by Schmolz + Bickenbach

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schmolz-Bickenbach-Holder-Block-Plastic-Mold-Steel.php

Physical Properties	Metric	English	Comments
Density	7.89 g/cc	0.285 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	22	22	
	@Treatment Temp. 621 °C, Time 7200 sec	@Treatment Temp. 1150 °F, Time 2.00 hour	
	30	30	
	@Treatment Temp. 593 °C, Time 7200 sec	@Treatment Temp. 1100 °F, Time 2.00 hour	
	32	32	
	@Treatment Temp. 566 °C, Time 7200 sec	@Treatment Temp. 1050 °F, Time 2.00 hour	
	37	37	
	@Treatment Temp. 538 °C, Time 7200 sec	@Treatment Temp. 1000 °F, Time 2.00 hour	
40	40		
@Treatment Temp. 482 °C, Time 7200 sec	@Treatment Temp. 900 °F, Time 2.00 hour		
43	43		
@Treatment Temp. 427 °C, Time 7200 sec	@Treatment Temp. 800 °F, Time 2.00 hour		
46	46		
@Treatment Temp. 371	@Treatment Temp. 700		

Mechanical Properties	Metric °C Time 7200 sec	English °F Time 2.00 hour	Comments
Tensile Strength	862 MPa @Temperature -5.56 °C	125000 psi @Temperature 22.0 °F	Heat Treated to 24-32 HRC
Tensile Strength, Yield	689 MPa @Temperature 22.0 °C	100000 psi @Temperature 71.6 °F	Heat Treated to 24-32 HRC
Elongation at Yield	17 % @Temperature 22.0 °C	17 % @Temperature 71.6 °F	Heat Treated to 24-32 HRC
Reduction of Area	35 % @Temperature 22.0 °C	35 % @Temperature 71.6 °F	Heat Treated to 24-32 HRC

Thermal Properties	Metric	English	Comments
CTE, linear	12.6 µm/m-°C @Temperature 21.1 - 93.3 °C	7.00 µin/in-°F @Temperature 70.0 - 200 °F	
	13.0 µm/m-°C @Temperature 21.1 - 316 °C	7.25 µin/in-°F @Temperature 70.0 - 600 °F	
	13.5 µm/m-°C @Temperature 21.1 - 427 °C	7.50 µin/in-°F @Temperature 70.0 - 800 °F	
Thermal Conductivity	29.1 W/m-K @Temperature 21.1 °C	202 BTU-in/hr-ft ² -°F @Temperature 70.0 °F	
	30.1 W/m-K @Temperature 204 °C	209 BTU-in/hr-ft ² -°F @Temperature 400 °F	
	31.1 W/m-K @Temperature 399 °C	216 BTU-in/hr-ft ² -°F @Temperature 750 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.35 %	0.35 %	
Chromium, Cr	1.25 %	1.25 %	
Iron, Fe	97 %	97 %	
Manganese, Mn	0.60 %	0.60 %	
Molybdenum, Mo	0.30 %	0.30 %	

Component Elements Properties	Metric	English	Comments
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