

Bohler-Uddeholm BÖHLER M268 VMR® Plastic Mold Steel

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

Material Notes:

Description: HBÖHLER M268 VMR is a hardened and tempered plastic mould steel with excellent cleanliness for best polishability. The hardness is constant over the entire cross-section of the steel block, even at large sizes, due to the addition of nickel. Applications: Moulds for plastics processing, components for general mechanical engineering and tool manufacture where highest polishability and fatigue strength are required.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bohler-Uddeholm-BHLER-M268-VMR-Plastic-Mold-Steel.php

Physical Properties	Metric	English	Comments
Density	7.85 g/cc	0.284 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	310 - 350	310 - 350	
Modulus of Elasticity	210 GPa	30500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.8 µm/m-°C	7.11 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	
	13.0 µm/m-°C	7.22 µin/in-°F	
	@Temperature 200 °C	@Temperature 392 °F	
	13.8 µm/m-°C	7.67 µin/in-°F	
	@Temperature 300 °C	@Temperature 572 °F	
	14.0 µm/m-°C	7.78 µin/in-°F	
	@Temperature 400 °C	@Temperature 752 °F	
	14.2 µm/m-°C	7.89 µin/in-°F	
@Temperature 500 °C	@Temperature 932 °F		
14.2 µm/m-°C	7.89 µin/in-°F		
@Temperature 600 °C	@Temperature 1110 °F		
14.5 µm/m-°C	8.06 µin/in-°F		
@Temperature 700 °C	@Temperature 1290 °F		
Specific Heat Capacity	0.460 J/g-°C	0.110 BTU/lb-°F	

Thermal Properties Thermal Conductivity	28.0 W/m-K Metric	194 BTU-in/hr-ft ² -°F English	Comments
	@Temperature 700 °C	@Temperature 1290 °F	
	31.1 W/m-K	216 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	32.8 W/m-K	228 BTU-in/hr-ft ² -°F	
	@Temperature 500 °C	@Temperature 932 °F	
	33.9 W/m-K	235 BTU-in/hr-ft ² -°F	
	@Temperature 400 °C	@Temperature 752 °F	
	34.3 W/m-K	238 BTU-in/hr-ft ² -°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	34.8 W/m-K	242 BTU-in/hr-ft ² -°F	
	@Temperature 300 °C	@Temperature 572 °F	
	35.1 W/m-K	244 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	35.3 W/m-K	245 BTU-in/hr-ft ² -°F	
	@Temperature 200 °C	@Temperature 392 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.38 %	0.38 %	
Chromium, Cr	2.0 %	2.0 %	
Iron, Fe	94.52 %	94.52 %	As remainder
Manganese, Mn	1.5 %	1.5 %	
Molybdenum, Mo	0.20 %	0.20 %	
Nickel, Ni	1.1 %	1.1 %	
Silicon, Si	0.30 %	0.30 %	

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