

International Mold Steel Porcerax II Sintered, Porous Mold Steel

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

Material Notes:

Description: Porcerax II is a sintered, porous metal with porosity in the range of 20 to 30% by volume. A system of interconnected pores with an average diameter of 7 or 20 micron is dispersed throughout the Porcerax II material. Using Porcerax II in appropriate areas, eliminates gas buildup, reduces injection pressure, lowers cycle times, gloss levels and substantially reduces scrap and reject rates. Unique Characteristics: Sintered, porous mold steel that is 25% air by volume. Interconnected pore structure allows trapped gasses to escape directly through the steel. Pre-hardened to 35-40 HRC for wear resistance. Information provided by International Mold Steel.

Order this product through the following link:

http://www.lookpolymers.com/polymer_International-Mold-Steel-Porcerax-II-Sintered-Porous-Mold-Steel.php

Physical Properties	Metric	English	Comments
Porosity	25 %	25 %	air by volume
Pore Size	7.00 - 20.0 microns	0.276 - 0.787 mil	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	35 - 40	35 - 40	
Tensile Strength, Ultimate	441.2 - 490 MPa	63990 - 71100 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 - 12.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.67 - 6.94 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 150 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 302 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	29.275 - 33.46 W/m-K	203.16 - 232.2 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	

Descriptive Properties	Value	Comments
HSS Machinability	Good	
Polishability	Good	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.comEmail : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China