

PSM Industries PolyAlloys MIM-17-4PH sintered Stainless Steel

Category : Metal , Ferrous Metal , Stainless Steel

Material Notes:

PolyAlloys Injected Metals, a division of PSM Industries, Inc., offers precision, High-Performance components for structural, magnetic and electronic applications that require a high degree of complexity and near full theoretical density by utilizing Metal Injection Molding (MIM). MIM can economically produce complex shapes beyond the capability of conventional Powdered Metallurgy. Benefits of Metal Injection Molding 96-98% of Theoretical Density Excellent Mechanical Properties Avoids Costly Secondary Operations Excellent Surface Finishes Capable of Extreme 3-D Geometries Holds Tight Tolerances Extremely Thin Wall Section Capabilities Information Provided by PolyAlloys, a division of PSM Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_PSM-Industries-PolyAlloys-MIM-17-4PH-sintered-Stainless-Steel.php

Physical Properties	Metric	English	Comments
Density	7.50 g/cc	0.271 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	27	27	Macro
Tensile Strength, Ultimate	>= 793 MPa	>= 115000 psi	
	896 MPa	130000 psi	Typical
Tensile Strength, Yield	>= 648 MPa	>= 94000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
	731 MPa	106000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Yield	>= 4.0 %	>= 4.0 %	in 1 in.
	6.0 %	6.0 %	in 1 in.; Typical
Modulus of Elasticity	193 GPa	28000 ksi	
Charpy Impact, Unnotched	67.8 J	50.0 ft-lb	

Descriptive Properties	Value	Comments
Corrosion Resistant	<0.005	H ₂ SO ₄ g/dm ² /day
	Pass	SuSO ₄
	Pass	Boil Test (H ₂ O)

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