

PSM Industries PolyAlloys MIM-14-4PH Heat Treated 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 DensityExcellent Mechanical PropertiesAvoids Costly Secondary OperationsExcellent Surface

FinishesCapable of Extreme 3-D GeometriesHolds Tight TolerancesExtremely Thin Wall Section CapabilitiesInformation Provided by PolyAlloys, a division of PSM Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_PSM-Industries-PolyAlloys-MIM-14-4PH-Heat-Treated-Stainless-Steel.php

Physical Properties	Metric	English	Comments
Density	7.50 g/cc	0.271 lb/in³	

Mechanical Properties	Metric	English Comments	
Hardness, Rockwell C	33	33 Macro	
	40	40	Micro
Tensile Strength, Ultimate	>= 1070 MPa	>= 155000 psi	
	1190 MPa	172000 psi	Typical
Tensile Strength, Yield	>= 965 MPa	>= 140000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
	1090 MPa	158000 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	

Descriptive Properties	Value	Comments
Corrosion Resistant	<0.005	H ₂ SO ₄ g/dm ² /day
	Pass	SuSO ₄
	Pass	Boil Test (H ₂ 0)



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