

PSM Industries PolyAlloys MIM-4605 quench/temper Low Alloy Steel

Category : Metal , Ferrous Metal , Alloy Steel , Low Alloy 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-4605-quenchtemper-Low-Alloy-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	48	48	Macro
	55	55	Micro
Tensile Strength, Ultimate	>= 1480 MPa	>= 215000 psi	
	1650 MPa	240000 psi	Typical
Tensile Strength, Yield	>= 1310 MPa	>= 190000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Yield	1480 MPa	215000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Yield	<= 1.0 %	<= 1.0 %	in 1 in.
	2.0 %	2.0 %	in 1 in.; Typical
Modulus of Elasticity	203 GPa	29500 ksi	
Charpy Impact, Unnotched	54.2 J	40.0 ft-lb	

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