

## PSM Industries PolyAlloys MIM-4605 sintered 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-sintered-Low-Alloy-Steel.php](http://www.lookpolymers.com/polymer_PSM-Industries-PolyAlloys-MIM-4605-sintered-Low-Alloy-Steel.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	62	62	Macro
Tensile Strength, Ultimate	>= 379 MPa	>= 55000 psi	
	441 MPa	64000 psi	Typical
Tensile Strength, Yield	>= 172 MPa	>= 25000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
	207 MPa	30000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Yield	>= 11 %	>= 11 %	in 1 in.
	15 %	15 %	in 1 in.; Typical
Modulus of Elasticity	200 GPa	29000 ksi	
Charpy Impact, Unnotched	67.8 J	50.0 ft-lb	

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