

## PSM Industries PolyAlloys MIM-316L sintered Stainless Steel

Category : Metal , Ferrous Metal , Stainless Steel , T 300 Series 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-316L-sintered-Stainless-Steel.php](http://www.lookpolymers.com/polymer_PSM-Industries-PolyAlloys-MIM-316L-sintered-Stainless-Steel.php)

Physical Properties	Metric	English	Comments
Density	7.60 g/cc	0.275 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	67	67	Macro
Tensile Strength, Ultimate	>= 448 MPa	>= 65000 psi	
	517 MPa	75000 psi	Typical
Tensile Strength, Yield	>= 138 MPa	>= 20000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
	172 MPa	25000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Yield	>= 40 %	>= 40 %	in 1 in.
	50 %	50 %	in 1 in.; Typical
Modulus of Elasticity	193 GPa	28000 ksi	
Charpy Impact, Unnotched	190 J	140 ft-lb	

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

## **Contact Songhan Plastic Technology Co.,Ltd.**

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