

PSM Industries PolyAlloys MIM-Fe-%3Si Grade 1 Soft Magnetic Steel

Category : Metal , Electronic/Magnetic Alloy

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-Fe-3Si-Grade-1-Soft-Magnetic-Steel.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	80	80	Macro
Tensile Strength, Ultimate	531 MPa	77000 psi	
Tensile Strength, Yield	393 MPa @Strain 0.200 %	57000 psi @Strain 0.200 %	
Elongation at Yield	24 %	24 %	in 1 in.

Electrical Properties	Metric	English	Comments
Magnetic Permeability	>= 8000	>= 8000	
	8500	8500	Typical
Magnetic Coercive Force, Hc	0.70 Oe	0.70 Oe	
Magnetic Remanence, Br	12000 Gauss	12000 Gauss	

Descriptive Properties	Value	Comments
B25 (kG)	14	min
	14.5	Typical
B500 (kG)	19.5	

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