

PSM Industries PolyAlloys MIM-Fe-%3Si Grade 2 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 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-Fe-3Si-Grade-2-Soft-Magnetic-Steel.php

Physical Properties	Metric	English	Comments
Density	7.45 g/cc	0.269 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	57000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Yield	24 %	24 %	in 1 in.

Electrical Properties	Metric	English	Comments
Magnetic Permeability	>= 5500	>= 5500	
	6000	6000	Typical
Magnetic Coercive Force, Hc	1.0 Oe	1.0 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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