PSM Industries PolyAlloys MIM-Fe-50%Ni 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 Molding96-98% 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-50Ni-Grade-1-Soft-Magnetic-Steel.php

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	50	50	Macro
Tensile Strength, Ultimate	455 MPa	66000 psi	
Tensile Strength, Yield	159 MPa @Strain 0.200 %	23000 psi @Strain 0.200 %	
Elongation at Yield	30 %	30 %	in 1 in.

Electrical Properties	Metric	English	Comments
Magnetic Permeability	>= 40000	>= 40000	
	47500	47500	Typical
Magnetic Coercive Force, Hc	0.13 Oe	0.13 Oe	
Magnetic Remanence, Br	10000 Gauss	10000 Gauss	

Descriptive Properties	Value	Comments
B25 (kG)	13	min
	14	Typical
B500 (kG)	15	

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