

Kinetics MIM 2.5% SiFe Soft Magnetic Steel

Category : Metal , Electronic/Magnetic Alloy , Ferrous Metal

Material Notes:

Low alloy steel, silicon. A work hardenable steel alloy that offers very good magnetic properties, tensile strength, hardness, wear resistance, and increased spring steel strength. Can be plated or coated for corrosion resistance. Often used for armatures, relays, solenoids, and applications where good magnetic, low core loss and high electrical resistivity in AC and DC applications is required. Property values reported are typical for Kinetics' MIM products. Metal Injection Molding General Notes: Fine metal powders (generally

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kinetics-MIM-25-SiFe-Soft-Magnetic-Steel.php

Physical Properties	Metric	English	Comments
Density	7.61 g/cc	0.275 lb/in ³	Sintered

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	82	82	
Tensile Strength, Ultimate	483 MPa	70000 psi	
Tensile Strength, Yield	338 MPa	49000 psi	
Elongation at Break	24 %	24 %	in 1 inch
Reduction of Area	43 %	43 %	
Charpy Impact, Unnotched	213 J	157 ft-lb	1/2 size bar

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.060 %	<= 0.060 %	
Iron, Fe	97.19 - 97.85 %	97.19 - 97.85 %	Iron content calculated by difference.
Silicon, Si	2.15 - 2.75 %	2.15 - 2.75 %	

Descriptive Properties	Value	Comments
Surface Finish	24 Ra	

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