

NiCoForm NiColoy® E Electroformed Nickel-Cobalt

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

NiColoy® is a proprietary electrodeposited Nickel-Cobalt alloy distinguished by the following combination of features: Leveled, smooth matte to semi bright deposit with low internal stress High tensile strength Medium-to-high hardness High modulus of elasticity High corrosion resistance High purity Amenable to soldering, brazing and welding

Order this product through the following link:

http://www.lookpolymers.com/polymer_NiCoForm-NiColoy-E-Electroformed-Nickel-Cobalt.php

Physical Properties	Metric	English	Comments
Density	8.89 g/cc	0.321 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	1100 MPa	160000 psi	ASTM E345-93, Type A Specimen
Tensile Strength, Yield	758 MPa	110000 psi	ASTM E345-93, Type A Specimen
	@Strain 0.100 %	@Strain 0.100 %	
	827 MPa	120000 psi	ASTM E345-93, Type A Specimen
	@Strain 0.200 %	@Strain 0.200 %	
	965 MPa	140000 psi	ASTM E345-93, Type A Specimen
	@Strain 1.00 %	@Strain 1.00 %	
Elongation at Break	>= 1.5 %	>= 1.5 %	ASTM E345-93, Type A Specimen
Elongation at Yield	>= 1.0 %	>= 1.0 %	ASTM E345-93, Type A Specimen
Tensile Modulus	122.4 GPa	17750 ksi	ASTM E111-04
Flexural Modulus	165 GPa	23900 ksi	ASTM E855-90, Test Method B

Thermal Properties	Metric	English	Comments
CTE, linear	13.3 µm/m-°C	7.39 µin/in-°F	ASTM E228-07
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.10 %	<= 0.10 %	
Cobalt, Co	>= 1.0 %	>= 1.0 %	
Nickel, Ni	>= 90 %	>= 90 %	

Component Elements Properties	Metric	English	Comments
Sulfur, S	= 0.080 %	= 0.080 %	

Descriptive Properties	Value	Comments
Rockwell Superficial Hardness, HR 15-N	73-83	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China