

CLAL-MSX DECLAFOR® 1015 TH4 Wire quenched/Precipitation Heat Treated Copper Alloy

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Main Characteristic: Age hardening alloy Beryllium free alloy Good machinability High mechanical properties
 Typical Applications: Coaxial connectors Spectacles parts Sliding contacts parts All kind of turned parts
 Information provided by CLAL-MSX

Order this product through the following link:

http://www.lookpolymers.com/polymer_CLAL-MSX-DECLAFOR-1015-TH4-Wire-quenchedPrecipitation-Heat-Treated-Copper-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.80 g/cc	0.318 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	310 - 325	310 - 325	
Tensile Strength, Ultimate	925 - 990 MPa	134000 - 144000 psi	
Tensile Strength, Yield	890 - 940 MPa @Strain 0.200 %	129000 - 136000 psi @Strain 0.200 %	
Elongation at Break	>= 5.0 %	>= 5.0 %	Alo 100 mm
Modulus of Rigidity	115 GPa	16700 ksi	Torsion

Thermal Properties	Metric	English	Comments
CTE, linear	17.2 µm/m-°C @Temperature 0.000 - 200 °C	9.56 µin/in-°F @Temperature 32.0 - 392 °F	
Thermal Conductivity	55.0 W/m-K	382 BTU-in/hr-ft ² -°F	
Melting Point	960 °C	1760 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	87 %	87 %	
Nickel, Ni	7.5 %	7.5 %	
Other	0.50 %	0.50 %	
Tin, Sn	5.0 %	5.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000130 ohm-cm	0.0000130 ohm-cm	

Descriptive Properties	Value	Comments
Color	Pinky roseate	

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