

Materion Brush 60â„ž HT

Category : Metal , Nonferrous Metal , Beryllium Alloy , Copper Alloy

Material Notes:

Information supplied by Brush Wellman Engineered Materials. Treatment required for max strength: Mill Hardened Stress Relaxation-% Stress Remaining after 1000 hrs @ 100Â°C: 96% Stress Relaxation after 1000 hrs @ 200Â°C: 75% Formability Ratio, 90Â° Bend, Radius/Thickness (Good Way): 1.5 Formability Ratio (bad Way): 1.5 Superficial Hardness: 30T 82-89 Brush 60â„ž is a new generation, high conductivity copper beryllium alloy which is specifically engineered to meet the stringent electrical and mechanical requirements of computer, datacom, and telecommunications applications. Performance benefits include: Signal reliability Durability Design flexibility Manufacturability Recyclability Brush Engineered Materials Inc. changed its name to Materion Corporation in March 2011.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Materion-Brush-60-HT.php

Physical Properties	Metric	English	Comments
Density	8.80 g/cc	0.318 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	99 - 106	99 - 106	
Tensile Strength, Ultimate	825 - 965 MPa	120000 - 140000 psi	
Tensile Strength, Yield	720 - 860 MPa	104000 - 125000 psi	
Elongation at Break	>= 10 %	>= 10 %	
Modulus of Elasticity	138 GPa	20000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 Âµm/m-Â°C @Temperature 20.0 - 200 Â°C	10.0 Âµin/in-Â°F @Temperature 68.0 - 392 Â°F	
Thermal Conductivity	221 W/m-K	1530 BTU-in/hr-ftÂ²-Â°F	
Melting Point	1030 - 1080 Â°C	1890 - 1980 Â°F	
Solidus	1030 Â°C	1890 Â°F	
Liquidus	1080 Â°C	1980 Â°F	

Component Elements Properties	Metric	English	Comments
Beryllium, Be	0.15 - 0.50 %	0.15 - 0.50 %	

Copper, Cu Component Elements Properties	98.1 % Metric	98.1 % English	as balance Comments
Nickel, Ni	1.0 - 1.4 %	1.0 - 1.4 %	
Tin, Sn	<= 0.25 %	<= 0.25 %	
Zirconium, Zr	<= 0.50 %	<= 0.50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 0.00000340 ohm-cm	<= 0.00000340 ohm-cm	50% IACS conductivity (minimum)

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