

## Schmolz + Bickenbach MoldMAX<sup>®</sup> V Copper Alloy

Category : Metal , Nonferrous Metal , Copper Alloy

### Material Notes:

Description: Brush Wellman's MoldMAX<sup>®</sup> V (MMV) is a high conductivity, moderately high strength, copper nickel silicon chromium alloy. Applications include injection mold and blow mold cores and cavities. Information provided by Schmolz + Bickenbach

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Schmolz-Bickenbach-MoldMAX-V-Copper-Alloy.php](http://www.lookpolymers.com/polymer_Schmolz-Bickenbach-MoldMAX-V-Copper-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.69 g/cc	0.314 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	28	28	
Tensile Strength, Ultimate	862 MPa	125000 psi	
Tensile Strength, Yield	724 MPa @Strain 0.200 %	105000 psi @Strain 0.200 %	
Elongation at Yield	7.0 %	7.0 %	
Modulus of Elasticity	128 GPa	18500 ksi	
Fatigue Strength	>= 275 MPa @# of Cycles 1.00e+7	>= 39900 psi @# of Cycles 1.00e+7	(R=-1)
Charpy Impact	6.78 J	5.00 ft-lb	Notched

Thermal Properties	Metric	English	Comments
CTE, linear	17.5 Åµm/m-Å°C	9.72 Åµin/in-Å°F	
Specific Heat Capacity	0.410 J/g-Å°C @Temperature 100 Å°C	0.0980 BTU/lb-Å°F @Temperature 212 Å°F	
Thermal Conductivity	13.3 W/m-K @Temperature 100 Å°C	92.0 BTU-in/hr-ftÅ²-Å°F @Temperature 212 Å°F	
Melting Point	>= 982 Å°C	>= 1800 Å°F	approximate
Solidus	982 Å°C	1800 Å°F	approximate

Component Elements Properties	Metric	English	Comments
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<b>Component Elements Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Nickel, Ni	6.5 - 7.5 %	6.5 - 7.5 %	
Silicon, Si	1.5 - 2.5 %	1.5 - 2.5 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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