

Williams Advanced Alloys WS280B Solder (Au80/Sn20)

Category : Metal , Nonferrous Metal , Precious Metal , Gold Alloy , Solder/Braze Alloy

Material Notes:

All Williams alloys are available in a variety of shapes and forms, including ribbon, preforms, rod, ring, wire, and custom shapes. Information provided by Williams Advanced Alloys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Williams-Advanced-Alloys-WS280B-Solder-Au80Sn20.php

Physical Properties	Metric	English	Comments
Density	14.51 g/cc	0.5242 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	276 MPa	40000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	15.9 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	8.83 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	57.0 W/m-K	396 BTU-in/hr-ft ² - $^\circ\text{F}$	
Melting Point	280 $^\circ\text{C}$	536 $^\circ\text{F}$	
Solidus	280 $^\circ\text{C}$	536 $^\circ\text{F}$	
Liquidus	280 $^\circ\text{C}$	536 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Gold, Au	80 %	80 %	
Tin, Sn	20 %	20 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00002234 ohm-cm	0.00002234 ohm-cm	

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