

## Williams Advanced Alloys WS186 Solder

Category : Metal , Nonferrous Metal , Solder/Braze Alloy , Tin 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-WS186-Solder.php](http://www.lookpolymers.com/polymer_Williams-Advanced-Alloys-WS186-Solder.php)

Physical Properties	Metric	English	Comments
Density	8.17 g/cc	0.295 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	53.8 MPa	7800 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	53.0 W/m-K	368 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	
Melting Point	183 - 186 $^\circ\text{C}$	361 - 367 $^\circ\text{F}$	
Solidus	183 $^\circ\text{C}$	361 $^\circ\text{F}$	
Liquidus	186 $^\circ\text{C}$	367 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Lead, Pb	30 %	30 %	
Tin, Sn	70 %	70 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001376 ohm-cm	0.00001376 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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