

Williams Advanced Alloys WS179 Solder

Category : Metal , Nonferrous Metal , Lead Alloy , 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-WS179-Solder.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 8.41 g/cc | 0.304 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------|----------|----------|
| Tensile Strength, Ultimate | 44.0 MPa | 6380 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 | 42.0 W/m-K | 291 BTU-in/hr-ft ² - $^\circ\text{F}$ | |
| Melting Point | 179 $^\circ\text{C}$ | 354 $^\circ\text{F}$ | |
| Solidus | 179 $^\circ\text{C}$ | 354 $^\circ\text{F}$ | |
| Liquidus | 179 $^\circ\text{C}$ | 354 $^\circ\text{F}$ | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Lead, Pb | 36 % | 36 % | |
| Silver, Ag | 2.0 % | 2.0 % | |
| Tin, Sn | 62 % | 62 % | |

| Electrical Properties | Metric | English | Comments |
|------------------------|-------------------|-------------------|----------|
| Electrical Resistivity | 0.00001445 ohm-cm | 0.00001445 ohm-cm | |

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