

## TIMET TIMETAL® 1100 Titanium Alloy (Ti-6Al-2.7Sn-4Zr-0.4Mo-0.45Si)

Category : Metal , Nonferrous Metal , Titanium Alloy , Alpha/Near Alpha Titanium Alloy

### Material Notes:

Features: A near alpha, high temperature creep resistant alloy developed for elevated temperature use in the range of 600°C that offers the highest combination of strength, creep resistance, fracture toughness and fatigue crack growth resistance. Data provided by TIMET.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_TIMET-TIMETAL-1100-Titanium-Alloy-Ti-6Al-27Sn-4Zr-04Mo-045Si.php](http://www.lookpolymers.com/polymer_TIMET-TIMETAL-1100-Titanium-Alloy-Ti-6Al-27Sn-4Zr-04Mo-045Si.php)

Physical Properties	Metric	English	Comments
Density	4.50 g/cc	0.163 lb/in <sup>3</sup>	Typical

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1000 MPa	145000 psi	Typical
Tensile Strength, Yield	910 MPa @Strain 0.200 %	132000 psi @Strain 0.200 %	Typical
Elongation at Break	8.0 %	8.0 %	Typical
Modulus of Elasticity	120 GPa	17400 ksi	Typical
Fatigue Strength	500 MPa	72500 psi	Limit; test specifics not reported
Bend Radius, Minimum	6.0 t	6.0 t	Typical; on 0.078 in (2 mm) sheet

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	600 °C	1110 °F	
Beta Transus	1015 °C	1859 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	6.0 %	6.0 %	
Molybdenum, Mo	0.40 %	0.40 %	
Silicon, Si	0.45 %	0.45 %	
Tin, Sn	2.7 %	2.7 %	
Titanium, Ti	86.5 %	86.5 %	Calculated as remainder
Zirconium, Zr	4.0 %	4.0 %	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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