Here is the extracted information presented in a clear and organized table format:

```
### **Mechanical Properties**
```

Property	Metric Value	English Value	Comments	1
Hardness Hardness, Knoop Hardness, Rockwell B Hardness, Vickers **Tensile Strength** Tensile Strength, Ultimat Tensile Strength, Yield Elongation at Break Reduction of Area **Modulus & Elasticity** Modulus of Elasticity (Te Compressive Modulus Poisson's Ratio Shear Modulus **Impact & Fatigue** Izod Impact Fatigue Strength (1E+7 of Fatigue Strength (30,000 Fracture Toughness (K(Collections))	275 - 410 MPa 20 % 35 % nsion) 105 GPa 110 GPa 0.37 45 GPa 114 - 171 J cycles) 300 MPa		Unnotched	

```
### **Chemical Composition (Wt. %)**
```

Component Max %			
C	0.1		
Fe	0.3		
H	0.015		
N	0.03		
0	0.25		
Ti	99.2		

Here is the extracted information organized into clear tables for **Electrical, Thermal, and Optical Properties**:

### **Thermal Properties*'	###	**Thermal	Pro	perties**
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### Thermal Properties Property	Metric Value	English Value	Comments	
 Heat Capacity Heat of Fusion Specific Heat Capacity (at (0.125 BTU/lb·°F)	 	 	 High Purity Ti Initial value: 0.523 J/g·°C	l
Thermal Expansion CTE, Linear (20°C) CTE, Linear (250°C)	 8.6 m/m·°C 9.2 m/m·°C	 4.78 m/m·°F 5.11 m/m·°I	•	١
 CTE, Linear (500°C)	9.7 m/m·°C	5.39 m/m·°I	F 0-540°C; higher to c-axis	
 Thermal Conductivity 	16.4 W/m·K	114 BTU∙iı	n/hr·ft²·°F Annealed	
Phase Transition Melting Point (Liquidus) Beta Transus	 1665 °C 913 °C	 3030 °F 1860 °F		

Optical Properties

Property	Metric Value English Value Comments			
Emissivity (0–1) Reflection Coefficient	 0.3 (0–1) 0.56	0.3 0.56	 High purity Ti at 710°C High purity Ti, visible light	

Notes

- **CTE**: Coefficient of Thermal Expansion.
- **Beta Transus**: Temperature at which titanium transitions to beta phase.
- Values marked "High purity Ti" refer to unalloyed titanium (Grade 2 in this case).

Let me know if you need further refinements or additional sections!