

Polyimide Properties	
$\begin{array}{c} \text{O} \quad \quad \quad \text{O} \\ \parallel \quad \quad \parallel \\ \text{R}^1-\text{C}-\text{N}-\text{C}-\text{R}^2 \\ \\ \text{R} \end{array}$	
Density	1430 kg/m ³
Young's modulus	3.2 GPa
Tensile strength	75–90 MPa
Elongation @ break	4–8%
Notch test	4–8 kJ/m
Glass temperature	>400 °C
Vicat softening point	220(?) °C
Thermal conductivity	0.52 W/(m·K)
Coefficient of thermal expansion	5.5×10 ⁻⁵ /K
Specific heat capacity	1.15 kJ/(kg·K)
Water absorption (ASTM)	0.32
Dielectric constant at 1 MHz	3.5
Source: http://en.wikipedia.org/wiki/Polyimide	