



SEMI-CRYSTALLINE AND AMORPHOUS PROPERTY COMPARISON CHART

Material Characteristics	Amorphous Polymers	Semi-Crystalline Polymers
Example Polymers	Polyetherimide (PEI) Polycarbonate (PC) Polysulfone (PSU)	Polyetheretherketone (PEEK), Polytetrafluoroethylene (PTFE) Polyphenylene sulphide (PPS)
Temperature Behaviour	Softens with increasing temperature	Well-defined melting point
Formability	Good	Poor
Transparency	High- transparency	Opaque
Chemical Resistance	Poor	Excellent
Adhesive Bond	Bonds well using adhesives	Difficult to bond with adhesives
Fatigue Resistance	Poor	Good
Wear Resistance	Poor	Good
Main Application Use	Popular for structural applications	Popular for bearing, wear and structural applications