

Jade Engineered Plastics 15 New Industrial Way Warren, RI 02885 US & Canada: (800) 557-9155 Outside US & Canada: (401) 253-4440 www.jadeplastics.com

## **Ultem**<sup>®</sup> PEI, Polyetherimide

## **OVERVIEW**

An amorphous, transparent amber polymer, Ultem<sup>®</sup> combines high temperature resistance, rigidity, impact strength, and creep resistance. PEI has found use in medical applications because of its heat and radiation resistance, hydrolytic stability, and transparency; in the electronics field, it is used to make burn-in sockets, bobbins, and printed circuit substrates; automotive uses include lamp sockets and under-hood temperature sensors; and PEI plastic sheeting is used in aircraft interiors. Relative to PEEK, PEI is cheaper, but less temperature-resistant and has a lower in impact strength.

## **APPLICATIONS & USES**

- Connectors: fiber optics, military, electrical, bulb sockets
- Telecom: broadband components, RF filters, waveguides
- Electrical: insulation, speaker cones
- Automotive: throttle bodies, lighting brackets
- Aircraft composites
- EMI / RFI sheilding
- Sound dampening

## **TECHNICAL DATA**

PROPERTY	VALUE
Tensile Strengh	17000 PSI
Flexural Strength	27000 PSI
Impact Strength, Notched Izod	1.0 Ft-lbs/Inch
Hardness (Rockwell & Burnell)	M114, R127
Deflection Temperature (264 PSI)	410F
Specific Gravity	1.51
Elongation	3%

The data provided gives the typical properties of the material. These are "typical" properties only, and should not be used for specification purposes. This information is based on our experience to date and we believe it to be reliable. It is intended to be used only as a guide at your discretion and risk. Jade cannot guarantee favorable results and assumes no liability in connection with the use of this product. None of this information is to be taken as a license to operate under, or recommendation to infringe, any patents.