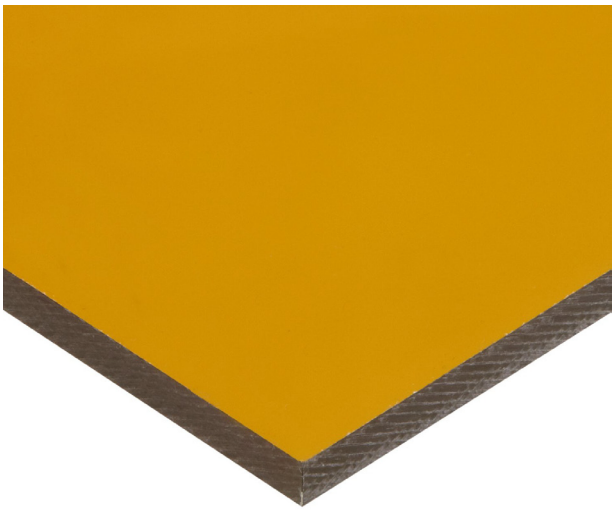
PRODUCT INFORMATION

PEI

Polyetherimide

Ultem®



Available in Sheet & Rod

PEI Overview

An amorphous, transparent amber polymer, PEI 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.

PEI Applications

- 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

PEI Features

- High tensile and dielectric strength
- Flame resistant
- Excellent strength, stiffness and dimensional stability
- Excellent hydrolytic stability
- High wear resistance

PEI Specifications

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%

*Specs accurate at 73°F

330 Commerce Circle
Sacramento, CA 95815
(800) 742-3444

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