



ULTEM® (polyetherimide)

ULTEM® is an amorphous thermoplastic polyetherimide (PEI) material which combines exceptional mechanical, thermal, and electrical properties. Natural ULTEM®

1000 (unreinforced) is a translucent amber material. The addition of glass fiber reinforcement to the basic ULTEM®, coupled with Ensinger's proprietary extrusion techniques,

provides the ULTEM® with both greater tensile strength and rigidity while at the same time improving dimensional stability.

- **Excellent mechanical strength**
ULTEM® exhibits high tensile strength at room temperature and retains a significant portion of this strength at elevated temperatures. Glass fibers further increase high-temperature strength.
- **Outstanding heat resistance**
ULTEM® retains its physical properties at elevated temperatures.
- **Exceptional resistance to environmental forces**
Environmental characteristics of ULTEM® include its stress resistance
- **Inherent flame resistance with low smoke evolution**
- **High mechanical strength**
- **High dielectric strength and stability**
The high dielectric strength and constant values of ULTEM® make it an excellent electrical insulator UL 94 V-O
- **Low dissipation factor over a wide range of frequencies**
- **Excellent machinability and finishing characteristics**
ULTEM® can be easily machined with conventional metalworking tools, painted, hot stamped, printed, or metallized.
- **Resin used in natural grade are FDA, USP Class VI and NSF compliant**

ULTEM® has many applications in medical, electronic/electrical, microwave, automotive, and aircraft industries.

Dallas, Texas (Corporate Offices)
Houston, Texas
Brandon, Mississippi

phone 800-782-1836 / 214-239-3870
phone 800-282-4388 / 713-979-0660
phone 800-457-8623 / 601-825-7919

fax 214-239-3871
fax 713-979-0664
fax 601-825-7109