



## ULTEM™ PEI Shape Data from Quantum Polymers

Shape Data Property Tested	ASTM Test Method	Units	ULTEM™ 1000 PEI Values	ULTEM™ 2300 PEI Values
Density	D792-13	g/cm <sup>3</sup>	1.27	1.51
HDT at 264 psi	D648-16	°C	201	210
Tensile Strength	D638-14	MPa	120	124.8
Tensile Elongation at Break	D638-14	%	50	3.3
Tensile Modulus (Young's)	D638-14	MPa	3338	5855
Dimensional Stability (change in diameter)	D6713-14	%	-0.003	-0.06
Dimensional Stability (change in thickness)	D6713-14	%	-0.021	0.11

### APPLICATIONS

- Structural components that require strength and rigidity at elevated temperatures
- Aircraft air and fuel valves and interior cladding parts
- Automotive transmission components, throttle bodies, sensors and thermostat housings
- Computer components, antennae, fiber optic connectors

### FEATURES

- Quantum's ULTEM™ 1000 stock shapes comply with the requirements of ASTM D7293-12 S-PEI0111
- Quantum's ULTEM™ 2300 stock shapes comply with the requirements of ASTM D7293-12 S-PEI0123
- Outstanding strength, stiffness and heat resistance
- Inherent flame resistance

### SIZES

#### Plates

Thickness: 3/8" to 6"  
Width: 12", 18", 24"  
Length: 4'

#### Rods

Diameter: 3/8" to 12"  
Length: 4' | 8' | 10'

#### Tubular Bars

OD: 3" to 6", 10", 12"  
Wall Thickness ≥ 1/2"  
Length: 4' | 8'



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