

DATA SHEET

ULTEM 2300

30% Glass Reinforced Extruded Polyetherimide (PEI)

PROPERTY	UNITS	VALUE
MECHANICAL		
Specific Gravity	-	1.51
Tensile Strength	psi	17,000
Tensile Modulus	psi	800,000
Elongation (at break)	%	3
Flexural Strength	psi	27,000
Flexural Modulus	psi	850,000
Compressive Strength	psi	32,000
Hardness, Rockwell	-	R127
Coefficient of Friction (Dry vs. Steel)	-	--
Limiting PV (with 4:1 safety factor)	psi x fpm	--
THERMAL		
Coefficient of Linear Thermal Expansion	in/in/F	1.1×10^{-5}
Heat Deflection Temperature (264 psi)	F	410
Glass Transition Temperature	F	410
Continuous Service Temperature	F	340
Thermal Conductivity	BTU/in/hr.ft.F	1.56
ELECTRICAL		
Dielectric Strength	volts/mil	770
Volume Resistivity	ohm-cm	$>10^{13}$
OTHER		
Water Absorption, Immersion, 24 hrs.	% by wt.	.18
Water Absorption, Immersion, Saturation	% by wt.	0.9

ENGINEERING NOTES:

- * Good resistance to steam.
- * High rigidity
- * Poor abrasion resistance.