

## Technical Data Sheet **PEI 2300**

ProPolymers PEI 2300 is a 30% glass filled polyetherimide that offers a superior combination of mechanical, electrical, and thermal properties. PEI is inherently flame resistant with low smoke emission. It provides outstanding processability and good chemical resistance.

<b>Mechanical</b>	ASTM	English	Metric
Tensile Strength at Yield	D 638	24,500 psi.	165 Mpa
Elongation at Fail	D 638	2.5%	2.5%
Elongation at Yield	D 638	NA	NA
Flexural Modulus	D 790	1,300,000 psi.	8,500 Mpa
Flexural Strength	D 790	33,000 psi.	225 Mpa
Izod Impact Strength, Notched	D 256	1.5 ft-lb/in	10 kJ/m <sup>2</sup>
Izod Impact Strength, Unnotched	D 256	8.0 ft-lb/in	40 kJ/m <sup>2</sup>
<b>Thermal</b>			
Vicat Softening Temp	D1525	442 F	228 C
Deflection Temperature@ 66psi	D 648	414 F	212 C
Deflection Temperature @ 264psi	D 648	410 F	210 C
Coefficient of Thermal Expansion	D 696	1.1X10 <sup>-3</sup> %/F	4.5X10 <sup>-3</sup> %/C
<b>Misc.</b>			
Specific Gravity	D 792	1.51	1.51
Water Absorption (24hr.)	D 570	0.16%	0.16%
Hardness, Rockwell M		114	114
Melt Flow Rate, 337C/6.6 kgf	D 1238	5.0 g/10 min.	5.0 g/10 min.
Mold Shrinkage, flow, 125-180 mil	D 955	2-4 in/in E-3	2-4 in/in E-3
Mold Shrinkage, xflow, 125-180 mil	D 955	2-4 in/in E-3	2-4 in/in E-3

The data listed above are typical properties, and as such are dependent on processing conditions. No warranties, expressed or implied, including patent warranties, or warranties of merchantability or fitness for use, are made with respect to the product information.

