

## Technical Data Sheet **PEI 2100**

ProPolymers PEI 2100 is a 10% 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	16,600 psi.	115 Mpa
Elongation at Fail	D 638	NA	NA
Elongation at Yield	D 638	6.0%	6.0%
Flexural Modulus	D 790	750,000 psi.	4,500 Mpa
Flexural Strength	D 790	29,000 psi.	185 Mpa
Izod Impact Strength, Notched	D 256	1.0 ft-lb/in	7 kJ/m <sup>2</sup>
Izod Impact Strength, Unnotched	D 256	9.0 ft-lb/in	30 kJ/m <sup>2</sup>
<b>Thermal</b>			
Vicat Softening Temp	D1525	434 F	223 C
Deflection Temperature@ 66psi	D 648	410 F	210 C
Deflection Temperature @ 264psi	D 648	408 F	209 C
Coefficient of Thermal Expansion	D 696	1.8X10 <sup>-3</sup> %/F	4.5X10 <sup>-3</sup> %/C
<b>Misc.</b>			
Specific Gravity	D 792	1.34	1.34
Water Absorption (24hr.)	D 570	0.21%	0.21%
Hardness, Rockwell M		114	114
Melt Flow Rate, 337C/6.6 kgf	D 1238	7.0 g/10 min.	7.0 g/10 min.
Mold Shrinkage, flow, 125-180 mil	D 955	4-6 in/in E-3	4-6 in/in E-3
Mold Shrinkage, xflow, 125-180 mil	D 955	5-6 in/in E-3	5-6 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.

