

Technical Data Sheet PEI 1000

ProPolymers PEI 1000 is a general purpose 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.

Mechanical	ASTM	English	Metric
Tensile Strength at Yield	D 638	16,000 psi.	105 Mpa
Elongation at Fail	D 638	6.5%	6.5%
Elongation at Yield	D 638	60.0%	60.0%
Flexural Modulus	D 790	520,000 psi.	3,200 Mpa
Flexural Strength	D 790	23,500 psi.	160 Mpa
Izod Impact Strength, Notched	D 256	1.0 ft-lb/in	6 kJ/m ²
Izod Impact Strength, Unnotched	D 256	25.0 ft-lb/in	140 kJ/m ²
Thermal			
Vicat Softening Temp	D1525	426 F	219 C
Deflection Temperature@ 66psi	D 648	410 F	210 C
Deflection Temperature @ 264psi	D 648	395 F	202 C
Coefficient of Thermal Expansion	D 696	3.0X10 ⁻³ %/F	5.0X10 ⁻³ %/C
Misc.			
Specific Gravity	D 792	1.27	1.27
Water Absorption (24hr.)	D 570	0.25%	0.25%
Hardness, Rockwell M		109	109
Melt Flow Rate, 337C/6.6 kgf	D 1238	9.0 g/10 min.	9.0 g/10 min.
Mold Shrinkage, flow, 125-180 mil	D 955	5-8 in/in E-3	5-8 cm/cm E-3
Mold Shrinkage, xflow, 125-180 mil	D 955	6-9 in/in E-3	6-9 cm/cm 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.

