

Technical Data Sheet PAA 4000 (Conditioned)

PAA 4000 is a 40% reinforced aromatic nylon copolymer. It has very high stiffness and strength similar to PPA. It can be processed in water heated tools and provides excellent surface finish. It is commonly used in metal and die cast replacement applications.

Mechanical	ASTM	English	Metric
Tensile Strength at Yield	D 638	23,700 psi.	163 Mpa
Elongation at Fail	D 638	4%	4%
Elongation at Yield	D 638	4%	4%
Flexural Modulus	D 790	1,150,000 psi.	7,900 Mpa
Flexural Strength	D 790	38,000 psi.	262 Mpa
Izod Impact Strength, Notched	D 256	2.0 ft-lb/in	
Izod Impact Strength, Unnotched	D 256		
Thermal			
Vicat Softening Temp	D1525	480 °F	248 °C
Deflection Temperature@ 66psi	D 648	470 °F	243 °C
Deflection Temperature @ 264psi	D 648	455 °F	235 °C
Coefficient of Thermal Expansion	D 696	$0.8 \times 10^{-5} / ^\circ\text{F}$	$0.45 \times 10^{-5} / ^\circ\text{C}$
Misc.			
Specific Gravity	D 792	1.48	1.48
Water Absorption (24hr.)	D 570	0.55%	0.55%
Melt Flow Rate, 337C/6.6 kgf	D 1238	.	
Mold Shrinkage, flow, 125-180 mil	D 955	0.20 %	0.20 %
Mold Shrinkage, xflow, 125-180 mil	D 955	0.95%	0.95%

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.

