

## Technical Data Sheet PAA 5000 (Conditioned)

PAA 5000 is a 50% 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.

<b>Mechanical</b>	ASTM	English	Metric
Tensile Strength at Yield	D 638	28,500 psi.	197 Mpa
Elongation at Fail	D 638	4%	4%
Elongation at Yield	D 638	4%	4%
Flexural Modulus	D 790	1,700,000 psi.	11,800 Mpa
Flexural Strength	D 790	45,000 psi.	310 Mpa
Izod Impact Strength, Notched	D 256	2.0 ft-lb/in	
Izod Impact Strength, Unnotched	D 256		
<b>Thermal</b>			
Vicat Softening Temp	D1525	480 °F	248 °C
Deflection Temperature@ 66psi	D 648	470 °F	243 °C
Deflection Temperature @ 264psi	D 648	460 °F	237 °C
Coefficient of Thermal Expansion	D 696	$0.8 \times 10^{-5} / ^\circ\text{F}$	$0.45 \times 10^{-5} / ^\circ\text{C}$
<b>Misc.</b>			
Specific Gravity	D 792	1.56	1.56
Water Absorption (24hr.)	D 570	0.45%	0.45%
Melt Flow Rate, 337C/6.6 kgf	D 1238	.	
Mold Shrinkage, flow, 125-180 mil	D 955	0.15 %	0.15 %
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.

