

# ProPolymers PAA 4000

Polyamide Copolymer

ProPolymers Inc.

## Message:

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.

General Information				
Filler / Reinforcement		Filler, 40% filler by weight		
Features		Excellent appearance		
		Aroma		
		Rigidity, high		
		Copolymer		
		Heat resistance, high		
Uses		Metal substitution		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.48	1.48	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.20	0.20	%	ASTM D955
Transverse flow	0.95	0.95	%	ASTM D955
Water Absorption (24 hr)	0.55	0.55	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Yield)	221	163	MPa	ASTM D638
Tensile Elongation				ASTM D638
Yield	3.0	4.0	%	ASTM D638
Fracture	3.0	4.0	%	ASTM D638
Flexural Modulus	11000	7930	MPa	ASTM D790
Flexural Strength	338	262	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	130	110	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	243	243	°C	ASTM D648
1.8 MPa, not annealed	235	235	°C	ASTM D648
Vicat Softening Temperature	249	249	°C	ASTM D1525
CLTE - Flow	1.4E-5	1.4E-5	cm/cm/°C	ASTM D696

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#### Recommended distributors for this material

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