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# Product Data Sheet

## INJECTOBLEND™ FPA6001

### General Purpose Nylon 6

Properties / Reported DAM	Test Method	English (U.S.)	Units System	Metric (S.I.)	Units System
<b>PHYSICAL</b>					
Specific Gravity, solid	D 792	-	1.13	-	1.13
Mold Shrinkage, flow 0.125" (3.2mm)	D 955	%	1.2	%	1.2
Water Absorption. 73F (23C), 24 hrs	D 570	%	1.4	%	1.4
Water Absorption. Saturation 73F (23C)	D 570	%	9	%	9
<b>MECHANICAL</b>					
Tensile Strength @ Yield. 73°F (23°C)	D 638	psi	11,000	MPa	76
Tensile Elongation @ Break. 73°F (23°C)	D 638	%	10	%	10
Flexural Strength. 73°F (23°C)	D 790	psi	16,000	MPa	110
Flexural Modulus. 73°F (23°C)	D 790	psi	380,000	MPa	2,620
Izod Impact, notched. 73°F (23°C), 0.125" (3.2mm)	D 256	ft-lb/in	1.1	J/m	59
<b>THERMAL</b>					
Deflection Temperature, unannealed 264 psi (1.82 MPa), Load 66 psi (0.45 MPa), Load	D 648	°F	144	°C	62
		°F	352	°C	178
Melting Point	D 3418	°F	424	°C	218
CLTE. -40°C to +35°C (-40°F to +95°F)	D 696	in/in/°F	4.67 E-5	mm/mm/°C	8.4 E-5
<b>FLAMMABILITY</b>					
UL 94 Flame Class. 0.058" (1.47mm)	UL 94	-	V-2	-	V-2

The values shown on the data sheet are typical values that have been obtained on typical AGS materials, are not intended for specification purposes and are provided without any warranty or guarantee. Each user of the material should make his own test to determine the suitability of the material for his use. Therefore, it is understood and agreed that the customer assumes and hereby releases AGS Technology, Inc. from all liabilities, incurred in connection with the use of AGS products, technical assistance and information. (APR 2023)