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Product Data Sheet

INJECTOBLEND™ FPA66001

General Purpose Nylon 66

Properties / Reported DAM	Test Method	English (U.S.)	Units System	Metric (S.I.)	Units System
PHYSICAL					
Specific Gravity, solid	D 792	-	1.14	-	1.14
Mold Shrinkage, flow 0.125" (3.2mm)	D 955	%	1.5	%	1.5
Water Absorption. 73F (23C), 24 hrs	D 570	%	1.2	%	1.2
Water Absorption. Saturation 73F (23C)	D 570	%	8.5	%	8.5
MECHANICAL					
Tensile Strength @ Yield. 73°F (23°C)	D 638	psi	12,500	MPa	86
Tensile Elongation @ Break. 73°F (23°C)	D 638	%	14	%	14
Flexural Strength. 73°F (23°C)	D 790	psi	16,000	MPa	110
Flexural Modulus. 73°F (23°C)	D 790	psi	420,000	MPa	2,896
Izod Impact, notched. 73°F (23°C), 0.125" (3.2mm)	D 256	ft-lb/in	1.0	J/m	53.4
THERMAL					
Deflection Temperature, unannealed	D 648				
264 psi (1.82 MPa), Load		°F	180	°C	82
66 psi (0.45 MPa), Load		°F	381	°C	194
Melting Point	D 3418	°F	496	°C	258
CLTE. -40°C to +35°C (-40°F to +95°F)	D 696	in/in/°F	4.5 E-5	mm/mm/°C	8.1 E-5
FLAMMABILITY					
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)