

951 Douglas Road  
 Batavia, IL 60510  
 (847) 534-6600  
 www.agstechnology.com



# Product Data Sheet

## INJECTOBLEND™ FPC120

### Impact Modified Polycarbonate

Properties / Reported DAM	Test Method	English (U.S.)	Units (System)	Metric (S.I.)	Units (System)
<b>PHYSICAL</b>					
Specific Gravity, solid	D 792	-	1.19	-	1.19
Mold Shrinkage, 0.125" (3.2mm)	D 955	%	0.5-0.8	%	0.5-0.8
Water Absorption, 73F (23C), 24 hrs	D 570	%	0.15	%	0.15
Melt Flow Rate @ 300C / 1.2kg, nominal	D 1238	g/10min	20	g/10min	20
<b>MECHANICAL</b>					
Tensile Strength @ Yield, 73°F (23°C)	D 638	psi	8,400	MPa	58
Tensile Elongation @ Break, 73°F (23°C)	D 638	%	50	%	50
Flexural Strength, 73°F (23°C)	D 790	psi	12,500	MPa	86
Flexural Modulus, 73°F (23°C)	D 790	psi	330,000	MPa	2,277
Izod Impact, notched, 73°F (23°C), 0.125" (3.2mm)	D256	ft-lb/in	13.0	J/m	694
Izod Impact, notched, -22°F (-30°C), 0.125" (3.2mm)	D256	ft-lb/in	7.0	J/m	374
Izod Impact, notched, 73°F (23°C), 4 mm	ISO 180	-	-	kJ/m <sup>2</sup>	52
Instrumented Impact Total Energy, 73°F (23°C), 0.125" (3.2mm)	D 3763	ft-lb	42	J	57
Instrumented Impact Total Energy, -22°F (-30°C), 0.125" (3.2mm)	D 3763	ft-lb	46	J	63
<b>THERMAL</b>					
Deflection Temperature, unannealed	D 648	264 psi (1.82 MPa), Load	°F	259	°C
		66 psi (0.45 MPa), Load	°F	275	°C
CLTE, -40 °C - +80 °C ( -40 °F - +176 °F)	D 696	in/in/°F	4.31 E-5	m/m/°C	7.76 E-5
<b>FLAMMABILITY</b>					
UL 94 Flame Class. 0.058" (1.47mm)	UL 94	-	HB	-	HB

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 2019)