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Product Data Sheet

INJECTOBLEND™ FHIPS108

High Impact Polystyrene

Properties	Test Method	English (U.S.)	Units (System)	Metric (S.I.)	Units (System)
PHYSICAL					
Specific Gravity, solid	D 792	-	1.04	-	1.04
Mold Shrinkage, 0.125" (3.2mm)	D 955	%	0.3-0.7	%	0.3-0.7
Melt Flow Rate @ 200C / 5.0kg, nominal	D 1238	g/10min	5.5	g/10min	5.5
MECHANICAL					
Tensile Strength @ Yield. 73°F (23°C)	D 638	psi	3,500	MPa	24
Tensile Elongation @ Break. 73°F (23°C)	D 638	%	40	%	40
Tensile Modulus. 73°F (23°C)	D 638	ksi	295	GPa	2.0
Flexural Strength. 73°F (23°C)	D 790	psi	6,000	MPa	41
Flexural Modulus. 73°F (23°C)	D 790	psi	320,000	MPa	2,208
Izod Impact, notched. 73°F (23°C), 0.125" (3.2mm)	D 256	ft-lb/in	2.0	J/m	107
Izod Impact, notched. -22°F (-30°C), 0.125" (3.2mm)	D 256	ft-lb/in	1.0	J/m	53
Gardner Impact Energy. 73°F (23°C), 0.125" (3.2mm)	D 5420	in-lb	120	J	10
THERMAL					
Deflection Temperature, unannealed	D 648				
264 psi (1.82 MPa), Load		°F	169	°C	76
66 psi (0.45 MPa), Load		°F	189	°C	87
CLTE. -40 °C - +80 °C (-40 °F - +176 °F)	D 696	in/in/°F	5.0 E-5	mm/mm/°C	9.0 E-5
Glass Transition Temperature	D 3418	°F	211.1	°C	99.5
FLAMMABILITY					
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 2023)