Vydyne® PB1006EM

Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description

Vydyne PB1006EM is a 30% glass bead filled PA6 for injection molded applications.

General		
Material Status	• Commercial: Active	
Availability	• Europe	• North America
Filler / Reinforcement	• Glass Bead, 30% Filler by Weight	
Additive	• Heat Stabilizer	• Mold Release
Features	• Good Dimensional Stability • Good Flow	• Good Surface Finish • Heat Stabilized
Agency Ratings	• ISO 1043 PA6 GB30	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	
Resin ID	• PA6-GB30	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break, 73°F)	6380	psi	ISO 527-2
Tensile Strain (Break, 73°F)	6.0	%	ISO 527-2
Flexural Modulus (73°F)	392000	psi	ISO 178
Flexural Stress (73°F)	8850	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	1.9	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	14	ft·lb/in²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	126	°F	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	446 to 464	°F
Middle Temperature	464 to 482	°F
Front Temperature	464 to 518	°F
Processing (Melt) Temp	464 to 518	°F
Mold Temperature	140 to 176	°F

Notes

[1] Typical properties: these are not to be construed as specifications.