

Vydyne® PB1006EM

polyamide 6



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

General

Regional Availability	• North America	• Europe	
Additive	• Heat Stabilizer	• Release agent	
Features	• Good Dimensional Stability	• Good Flow	• Good Surface Finish
Agency Rating	• ISO, 1043 PA6 GB30	• ISO, 1043 PA6 GB30	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.28	-	g/cm ³	ISO 1183

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Stress (Break, 23°C)	44	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	6	-	%	ISO 527-2
Flexural Modulus (23°C)	2700	-	MPa	ISO 178
Flexural Strength (23°C)	61	-	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Notched Izod Impact Strength, +23°C	4	-	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength, +23°C	29	-	kJ/m ²	ISO 180/1U

Thermal

	dry	cond.	Unit	Test Standard
Heat Deflection Temperature, 1.80 MPa, Unannealed	52	-	°C	ISO 75-2/A

Injection

	Value	Unit
Drying Temperature	80	°C
Drying Time	4 - 6	h
Suggested Max Moisture	0.2	%
Rear Temperature	230 - 240	°C
Middle Temperature	240 - 250	°C
Front Temperature	240 - 270	°C
Processing (Melt) Temperature	240 - 270	°C
Mold Temperature	60 - 80	°C

