

Vydyne® RB008

Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

Vydyne RB008 is a 40% glass bead reinforced PA66 for injection molded applications.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Bead, 40% Filler by Weight
Additive	• Heat Stabilizer • Mold Release
Features	• Good Dimensional Stability • Heat Stabilized
Agency Ratings	• ISO 1043 PA66 GB40
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66-GB40

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	754000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	12000	psi	ISO 527-2
Tensile Strain (Break, 73°F)	4.0	%	ISO 527-2
Flexural Modulus (73°F)	638000	psi	ISO 178
Flexural Stress (73°F)	18600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	1.4	ft-lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	437	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	230	°F	ISO 75-2/A
CLTE - Flow (73 to 131°F, 0.0787 in)	3.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F, 0.0787 in)	3.2E-5	in/in/°F	ISO 11359-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	167 to 185	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	500 to 536	°F
Middle Temperature	518 to 536	°F
Front Temperature	518 to 554	°F
Processing (Melt) Temp	518 to 554	°F
Mold Temperature	140 to 194	°F

