

Vydyne® PF005IU3

 Ascend Performance Materials Operations LLC - *Polyamide 6*
General Information
Product Description

Vydyne PF005IU3 is an impact modified, 25% glass fiber reinforced, PA6 for injection molded applications.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier • Mold Release
Features	• Good Strength • High Rigidity • Heat Stabilized • Impact Modified
Agency Ratings	• ISO 1043 PA6 I GF25
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA6-I-GF25

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	783000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	12500	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	8.0	%	ISO 527-2
Flexural Modulus (73°F)	624000	psi	ISO 178
Flexural Stress (73°F)	16400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-22°F	6.7	ft·lb/in ²	
73°F	12	ft·lb/in 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	446 to 464	°F
Middle Temperature	464 to 482	°F
Front Temperature	464 to 500	°F
Processing (Melt) Temp	464 to 500	°F
Mold Temperature	140 to 176	°F

