

Vydyne® PF005

Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description

Vydyne PF005 is a 25% glass fiber reinforced PA6 for injection molded applications.

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> Europe North America
Filler / Reinforcement	<ul style="list-style-type: none"> Glass Fiber, 25% Filler by Weight
Agency Ratings	<ul style="list-style-type: none"> ISO 1043 PA6 GF25
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding
Resin ID	<ul style="list-style-type: none"> PA6-GF25

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F)	6.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 73°F)	21000	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2
Flexural Modulus (73°F)	1.09E+6	psi	ISO 178
Flexural Stress (73°F)	27600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	4.8	ft·lb/in ²	ISO 180/1A

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 518	°F
Processing (Melt) Temp	464 to 518	°F
Mold Temperature	140 to 176	°F

