

Vydyne® PF004EUC

Ascend Performance Materials Operations LLC - Polyamide 6

General Information

Product Description

Vydyne PF004EUC is a 20% glass fiber reinforced PA6 for injection molded applications.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Heat Stabilizer • Mold Release
Features	• Good Stiffness • Good Strength • Heat Stabilized
Agency Ratings	• ISO 1043 PA6 GF20
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA6-GF20

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density	1.27	g/cm ³	ISO 1183
Mechanical			
Tensile Modulus (73°F)	914000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	17000	psi	ISO 527-2
Tensile Stress (Break, 73°F)	16000	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.0	%	ISO 527-2
Flexural Modulus (73°F)	696000	psi	ISO 178
Flexural Stress (73°F)	23600	psi	ISO 178
Impact			
Notched Izod Impact Strength (73°F)	3.3	ft·lb/in ²	ISO 180/1A
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	351	°F	ISO 75-2/A
Electrical			
Comparative Tracking Index (0.118 in)	500	V	IEC 60112
Flammability			
Glow Wire Flammability Index (0.06 in)	1200	°F	IEC 60695-2-12

Processing Information

	Nominal Value	Unit
Injection		
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

