Vydyne® PF007

Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description			
Vydyne PF007 is a 35% glass fiber reinforced PA6 for injection molded applications.			
General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight		
Additive	• Heat Stabilizer	• Mold Release	
Features	• Heat Stabilized	• High Rigidity	• High Strength
Agency Ratings	• ISO 1043 PA6 GF35		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA6-GF35		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	ISO 1183
Water Absorption (Saturation, 73°F)	6.2	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.6	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.45E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	26100	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.2	%	ISO 527-2
Flexural Modulus (73°F)	1.41E+6	psi	ISO 178
Flexural Stress (73°F)	40600	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	5.7	ft·lb/in²	
73°F	7.1	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	40	ft·lb/in²	
73°F	43	ft·lb/in²	
Notched Izod Impact Strength			ISO 180/1A
-40°F	4.8	ft·lb/in²	
-22°F	5.2	ft·lb/in²	
73°F	7.6	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow (73 to 131°F, 0.0787 in)	1.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F, 0.0787 in)	4.5E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity (0.0394 in)	1.0E+16	ohms·cm	IEC 60093
Comparative Tracking Index (0.118 in)	500	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Glow Wire Flammability Index (0.08 in)	1200	°F	IEC 60695-2-12
Oxygen Index	27	%	ISO 4589-2

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

Notes

[1] Typical properties: these are not to be construed as specifications.