Vydyne® BG6ST01

Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description			
Vydyne BG6ST01 is an impact modified and 30% glass fiber reinforced PA6 for injection molded applications.			
General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer	• Impact Modifier	• Mold Release
Features	• Good Strength • Heat Stabilized	• High Rigidity • Impact Modified	
Agency Ratings	• ISO 1043 PA6 I GF30		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA6-I-GF30		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.35	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.15E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	20000	psi	ISO 527-2
Tensile Strain (Break, 73°F)	5.0	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength			ISO 180/1A
-40°F	3.8	ft·lb/in²	
-22°F	4.3	ft·lb/in²	
73°F	6.2	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow (73 to 131°F, 0.0787 in)	1.5E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F, 0.0787 in)	4.8E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index (0.118 in)	550	V	IEC 60112

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	176	°F
Drying Time	4.0 to 6.0	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

Notes

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