Vydyne® P1000IX3

Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description

Vydyne P1000IX3 is an impact modified PA6 for injection molded applications.

General		
Material Status	• Commercial: Active	
Availability	• Europe	• North America
Additive	• Impact Modifier	• Mold Release
Features	• Impact Modified	
Agency Ratings	• ISO 1043 PA6 I	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	
Resin ID	• PA6-I	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm³	ISO 1183
Water Absorption (24 hr, 73°F)	2.3	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	290000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	7250	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	2.1	%	ISO 527-2
Flexural Modulus (73°F)	232000	psi	ISO 178
Flexural Stress (73°F)	8850	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	17	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	No Break		ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	277	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	118	°F	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	428 to 446	°F
Middle Temperature	446 to 464	°F
Front Temperature	464 to 482	°F
Processing (Melt) Temp	464 to 482	°F
Mold Temperature	140 to 194	°F

Notes

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