

Vydyne® P1000IX1

 Ascend Performance Materials Operations LLC - *Polyamide 6*
General Information
Product Description

Vydyne P1000IX1 (formerly P1000HI006 and Star X 2006) 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	1.11	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	363000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	8700	psi	ISO 527-2
Tensile Stress (Break, 73°F)	6380	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.8	%	ISO 527-2
Flexural Modulus (73°F)	247000	psi	ISO 178
Flexural Stress (73°F)	9430	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	4.3	ft·lb/in ²	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)	293	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	122	°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.
