

Vydyne® P1000IX3

polyamide 6



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

General				
Regional Availability	• North America • Europe			
Additive	• Release agent			
Agency Rating	• ISO, 1043 PA6 I			
Appearance	• Natural Color			
Forms	• Pellets			
Processing Method	• Injection Molding			

Physical	dry	cond.	Unit	Test Standard
Density	1.10	-	g/cm ³	ISO 1183
Water Absorption, 23°C, 24 hr	2.3	*	%	ISO 62

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	2000	-	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	50	-	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	2.1	-	%	ISO 527-2
Flexural Modulus (23°C)	1600	-	MPa	ISO 178
Flexural Strength (23°C)	61	-	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Notched Izod Impact Strength, +23°C	36	-	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength, +23°C	N	-	kJ/m ²	ISO 180/1U

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	48	-	°C	
0.45 MPa, Unannealed	136	-	°C	

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	220 - 230	°C
Middle Temperature	230 - 240	°C
Front Temperature	240 - 250	°C

Vydyne® P1000IX3
polyamide 6



Processing (Melt) Temperature	240 - 250	°C
Mold Temperature	60 - 90	°C

