

Vydyne® R1000

polyamide 66



Vydyne R1000 is an unreinforced PA66 for injection molded applications.

General				
Regional Availability	• North America	• Europe		
Additive	• Heat Stabilizer	• Release agent		
Agency Rating	• ISO, 1043 PA66			
Appearance	• Natural Color			
Forms	• Pellets			
Processing Method	• Injection Molding			

Physical	dry	cond.	Unit	Test Standard
Density	1.14	-	g/cm ³	ISO 1183
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	2	*	%	
Water Absorption, Saturation, 23°C	8.5		%	ISO 62

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	3000	-	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	85	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	20	-	%	ISO 527-2
Flexural Modulus (23°C)	2800	-	MPa	ISO 178
Flexural Strength (23°C)	105	-	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength, +23°C	5	-	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength, +23°C	100	-	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A
+23°C	5	-	kJ/m ²	
-30°C	4	-	kJ/m ²	

Injection	Value	Unit
Drying Temperature	75 - 85	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	260 - 270	°C
Middle Temperature	270 - 280	°C
Front Temperature	270 - 290	°C

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+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

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Processing (Melt) Temperature	270 - 290	°C
Mold Temperature	60 - 90	°C

