

Vydyne® B28N

polyamide 6



Vydyne B28N is a nucleated and unreinforced PA6 for injection molded applications.

General				
Regional Availability	• North America	• Europe		
Agency Rating	• ISO, 1043 PA6			
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	2.6	*	%	
Water Absorption, Saturation, 23°C	10		%	ISO 62

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	2700	-	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	70	-	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.5	-	%	ISO 527-2
Tensile Strain (Break, 23°C)	15	-	%	ISO 527-2
Flexural Modulus (23°C)	2400	-	MPa	ISO 178
Flexural Strength (23°C)	85	-	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	23	-	kJ/m ²	
-30°C	4	-	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	270	-	kJ/m ²	
-30°C	100	-	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	5	-	kJ/m ²	
-40°C	3	-	kJ/m ²	

Thermal	dry	cond.	Unit	Test Standard
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	80	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	80	*	E-6/K	
RTI Elec				UL 746

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0.750 mm	65	°C	
3.00 mm	65	°C	
RTI Imp			UL 746
0.750 mm	65	°C	
3.00 mm	65	°C	
RTI Str			UL 746
0.750 mm	65	°C	
3.00 mm	65	°C	

Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E14	-	Ohm*m	IEC 60093
Comparative Tracking Index (3.00 mm)	600		V	IEC 60112

Flammability	dry	cond.	Unit	Test Standard
Oxygen index	24	*	%	EN ISO 4589-2

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	230 - 240	°C
Middle Temperature	240 - 250	°C
Front Temperature	250 - 260	°C
Processing (Melt) Temperature	250 - 260	°C
Mold Temperature	60 - 80	°C

