

Vydyne® B40

polyamide 6



Vydyne B40 is high viscosity PA6 for extrusion applications.

General				
Regional Availability	• North America	• Europe		
Additive	• Release agent			
Agency Rating	• ISO, 1043 PA6			
Appearance	• Natural Color			
Forms	• Pellets			
Processing Method	• Other Extrusion	• Profile Extrusion		
Physical	dry	cond.	Unit	Test Standard
Density	1.13	-	g/cm ³	ISO 1183
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	2.35	*	%	
Water Absorption, Saturation, 23°C	10		%	ISO 62
Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	3100	-	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	80	-	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4	-	%	ISO 527-2
Tensile Strain (Break, 23°C)	15	-	%	ISO 527-2
Flexural Modulus (23°C)	2700	-	MPa	ISO 178
Flexural Strength (23°C)	100	-	MPa	ISO 178
Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	3	-	kJ/m ²	
-30°C	3	-	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	N	-	kJ/m ²	
-30°C	N	-	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	5	-	kJ/m ²	
-30°C	4	-	kJ/m ²	
-40°C	3	-	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
+23°C	100	-	kJ/m ²	
-30°C	100	-	kJ/m ²	

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Thermal	Value	Unit	Test Standard
RTI Elec			UL 746
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	

Flammability	Value	Test Standard
Flammability		UL 94
0.750 mm	HB	
3.00 mm	HB	

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

