

Vydyne® R530HT BK02

polyamide 66



Vydyne R530HT BK02

General				
Material Status	• Commercial: Active			
Availability	• Asia Pacific	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight			
Additive	• Heat Stabilizer	• Lubricant		
Features	• Antifreeze Resistant • Chemical Resistant • Fatigue Resistant	• Gasoline Resistant • Heat Stabilized • High Flow	• Lubricated • Solvent Resistant	
Uses	• Automotive Under the Hood			
Agency Ratings	• ASTM D4066 PA114G30	• ASTM D6779 PA084G30		
Automotive Specifications	• DELPHI SD-2-424 rev 2			
UL File Number	• E70062			
Appearance	• Black			
Forms	• Pellets			
Processing Method	• Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	0.90	--	%	
Flow : 23°C, 2.00 mm	0.40	--	%	
Water Absorption				ISO 62
24 hr, 23°C	0.90	--	%	
Equilibrium, 23°C, 50% RH	1.9	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9800	6900	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	185	125	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.5	4.0	%	ISO 527-2
Flexural Modulus (23°C)	8800	5500	MPa	ISO 178
Flexural Stress (23°C)	260	170	MPa	ISO 178
Poisson's Ratio (23°C)	0.40	--		ISO 527

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	7.0	8.0	kJ/m ²	
23°C	15	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	65	70	kJ/m ²	
23°C	70	100	kJ/m ²	
Notched Izod Impact Strength				ISO 180
-30°C	11	11	kJ/m ²	
23°C	11	11	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	258	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	248	--	°C	ISO 75-2/A
Melting Temperature	258	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	2.2E-5	--	cm/cm/°C	
Transverse : 23 to 55°C, 2.00 mm	1.1E-4	--	cm/cm/°C	
Injection	Dry Unit			
Drying Temperature	80 °C			
Drying Time	4.0 hr			
Suggested Max Regrind	25 %			
Rear Temperature	280 to 310 °C			
Middle Temperature	280 to 310 °C			
Front Temperature	280 to 310 °C			
Nozzle Temperature	280 to 310 °C			
Processing (Melt) Temp	285 to 305 °C			
Mold Temperature	65 to 95 °C			

Notes

Typical properties: these are not to be construed as specifications.

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