

Vydyne® R535HT BK653

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne R535HT BK653 is a 35% glass-filled, heat-stabilized PA66 resin. Available in black, this product is also lubricated for improved flow and offers superior surface appearance. Specifically designed for high-temperature applications, Vydyne R535HT BK653 can withstand elevated temperatures up to 190°C for an extended period of time.

General Information				
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
Features		Antifreeze Resistant		
		Fatigue Resistant		
		Gasoline Resistance		
		Good Chemical Resistance		
		Heat Stabilized		
		High Flow		
		Lubricated		
		Solvent Resistant		
Uses		Automotive Under the Hood		
		Charge Air Systems		
		High Temperature Applications		
Agency Ratings		ASTM D 4066 PA012G35		
		ASTM D 6779 PA012G35		
UL File Number		E70062		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	0.90	--	%	
Flow : 2.00 mm	0.40	--	%	
Water Absorption				ISO 62
23°C, 24 hr	0.80	--	%	

Equilibrium, 23°C, 50% RH	1.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11200	7800	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	200	130	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.2	3.0	%	ISO 527-2
Flexural Modulus (23°C)	10200	6300	MPa	ISO 178
Flexural Stress (23°C)	280	145	MPa	ISO 178
Poisson's Ratio	0.40	--		ISO 527
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	12	kJ/m ²	
23°C	12	18	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	75	kJ/m ²	
23°C	75	85	kJ/m ²	
Notched Izod Impact Strength				ISO 180
-30°C	13	13	kJ/m ²	
23°C	14	18	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	256	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	1.9E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	8.1E-5	--	cm/cm/°C	
Injection	Dry	Unit		
Drying Temperature	80.0		°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	65.0 to 95.0		°C	

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