

Vydyne R535H BK0201 is a general purpose, 35% glass-filled, heat-stabilized PA66 based resin designed for injection molding applications. R535H BK0201 offers improved flow with a black surface finish and maintains the excellent resistance typical of PA66 in chemicals, machine and motor oils, solvents, and gasoline.

Additive	 Heat Stabilizer 	Lubricant	
Features	Antifreeze Resistant	Chemical Resistant	Fatigue Resistant
	 Gasoline Resistant 	 Heat Stabilized 	High Flow
	 Lubricated 	 Solvent Resistant 	
Agency Rating	• ASTM, D4066 PA012G35	• ASTM, D6779 PA012G35	• ISO, 1043 PA66 GF35
	 RoHS Compliant 		
Automotive Specifications	• GM GMW16270P-	• GM GMW3038P-	• GM GMW3038P-
	PA66-GF35	PA66-GF35H	PA66-GF35J
Appearance	• Black		
Forms	• Pellets		
Processing Method	Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.41	-	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow: 23°C, 2.00 mm	0.9	*	%	
Flow: 23°C, 2.00 mm	0.4	*	%	
Water Absorption				ISO 62
23°C, 24 hr	0.8	*	%	
Equilibrium, 23°C, 50% RH	1.6	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	10600	8000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	212	136	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.9	5.5	%	ISO 527-2
Flexural Modulus (23°C)	10500	7000	MPa	ISO 178
Flexural Strength (23°C)	300	205	MPa	ISO 178
Poisson's Ratio (23°C)	0.4			ISO 527-2

Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	12	14	kJ/m²	
-30°C	11	12	kJ/m²	

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Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	80	90	kJ/m²	
-30°C	70	85	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	12	14	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	250	-	°C	
0.45 MPa, Unannealed	260	-	°C	
Melting Temperature	260	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow: 23 to 55°C, 2.00 mm	20	*	E-6/K	
Transverse: 23 to 55°C, 2.00 mm	110	*	E-6/K	
RTI Elec				UL 746
0.750 mm	140		°C	
1.50 mm	140		°C	
3.00 mm	140		°C	
RTI Imp				UL 746
0.750 mm	125		°C	
1.50mm	125		°C	
3.00 mm	125		°C	
RTI Str				UL 746
0.750 mm	140		°C	
1.50 mm	140		°C	
3.00 mm	140		°C	

Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E11	-	Ohm*m	IEC 60093
Dielectric Strength (1.00 mm)	20	-	kV/mm	IEC 60243
Arc Resistance (3.00 mm)	6			ASTM D 495
Comparative Tracking Index (3.00 mm)	250 - 399		V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
0.750 mm	PLC 0			
1.50 mm	PLC 0			
3.00 mm	PLC 0			
High Voltage Arc Tracking Rate (HVTR), 3.00 mm	PLC 1			UL 746
Hot-wire Ignition (HWI)				UL 746

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0.750 mm PLC 4
1.50 mm PLC 3
3.00 mm PLC 4

Flammability	Value	Unit	Test Standard
Burning Rate, 2.00 mm		mm/min	ISO 3795
Flammability			UL 94
0.750 mm	НВ		
1.50 mm	НВ		
3.00 mm	НВ		
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	700	°C	
1.50 mm	700	°C	
3.00 mm	875	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	725	°C	
1.50 mm	725	°C	
3.00 mm	750	°C	

Injection	Value	Unit	
Drying Temperature	80	°C	
Drying Time	4	h	
Rear Temperature	280 - 310	°C	
Middle Temperature	280 - 310	°C	
Front Temperature	280 - 310	°C	
Nozzle temperature	280 - 310	°C	
Processing (Melt) Temperature	285 - 305	°C	
Mold Temperature	65 - 95	°C	



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