Vydyne® R525H BK0201

polyamide 66

Vydyne R525H BK0201 is a general purpose, 25% glass-filled, heat-stabilized, high viscosity PA66 based resin designed for injection molding applications. R525H BK0201 offers standard flow with a black surface finish and maintains the excellent resistance typical of PA66 in chemicals, machine and motor oils, solvents, and gasoline.

General

Additive	• Heat Stabilizer	• Lubricant	
Features	• Antifreeze Resistant	• Chemical Resistant	• Fatigue Resistant
	• Gasoline Resistant	• Good Flow	• Heat Stabilized
	• Hydrolysis Resistant	• Lubricated	• Solvent Resistant
Agency Rating	• ASTM, D4066 PA012G25	• ASTM, D6779 PA012G25	
Automotive Specifications	• GM GMW16270P-PA66-GF25	• GM GMW3038P-PA66-GF25H	• GM GMW3038P-PA66-GF25J
	• Schaeffler S131001	• Stellantis 01994_15_00060	• Toyota TSM5603G, Class 2B, Rev 5 (compliance)
	• Valeo NVB 15009 Class 1	• Valeo NVB 15009 Class 2	
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.32	-	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.3	*	%	
Flow : 23°C, 2.00 mm	0.5	*	%	
Water Absorption				ISO 62
23°C, 24 hr	1.4	*	%	
Equilibrium, 23°C, 50% RH	1.9	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	8600	5500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	174	117	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3	7	%	ISO 527-2
Flexural Modulus (23°C)	8100	6200	MPa	ISO 178
Flexural Strength (23°C)	232	160	MPa	ISO 178
Poisson's Ratio (23°C)	0.4			ISO 527-2

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Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	9	9	kJ/m²	
-30°C	8	8	kJ/m²	
-40°C	8	8	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	59	69	kJ/m²	
-30°C	56	56	kJ/m²	
-40°C	52	52	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	8	9	kJ/m²	
-30°C	7	8	kJ/m²	
-40°C	7	8	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	244	241	°C	
0.45 MPa, Unannealed	259	260	°C	
Melting Temperature	262	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	26	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	76	*	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	120		°C	
1.50mm	120		°C	
3.00 mm	120		°C	
RTI Str				UL 746
0.750 mm	125		°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

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
0.400 mm	PLC 4		
0.750 mm	PLC 3		
1.50 mm	PLC 4		

Flammability	Value	Unit	Test Standard
Burning Rate, 2.00 mm		mm/min	ISO 3795
Flammability			UL 94
0.750 mm	HB		
1.50 mm	HB		
3.00 mm	HB		
Glow Wire Flammability Index			IEC 60695-2-12
0.400 mm	675	°C	
0.750 mm	675	°C	
1.50 mm	675	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.400 mm	700	°C	
0.750 mm	700	°C	
1.50 mm	700	°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

North America
+1 888 927 2363

Europe
+32 10 608 600

Asia
+86 21 2315 0888

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