

Vydyne® R530H BK0201

polyamide 66

Vydyne R530H BK0201 is general purpose, 30% glass-filled, heat-stabilized, high viscosity PA66 based resin designed for injection molding applications. R530H 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

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Heat Stabilizer	• Lubricant	
Features	• Antifreeze Resistant • Gasoline Resistant • Lubricated	• Chemical Resistant • Good Flow • Solvent Resistant	• Fatigue Resistant • Heat Stabilized
Agency Rating	• ASTM, D4066 PA012G30	• ASTM, D6779 PA012G30	• RoHS Compliant
Automotive Specifications	• GM GMW3038P-PA66-GF30J • Renault AS26 • HYUNDAI MS211-47 Type 2A • Ford WSS-M4D752-B1 • Chery Q-SQR.S1-33-2012 CMP.PA66.G6	• VOLKSWAGEN TL52682 (compliance) • PSA Peugeot-Citroën FTM64 0046 • GM GMW3038P-PA66-GF30H • Daimler DBL5406-PV22 (compliance) • BMW GS 93016	• Valeo PDT NVB 15009-3 • Mahle Behr SD2-181 • GM GMW16270P-PA66-GF30 • Daimler DBL5406-PV21 (compliance) • VW PV1015 (compliance)
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.38	-	g/cm ³	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	1.3	*	%	
Equilibrium, 23°C, 50% RH	1.9	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	11000	7900	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	200	136	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.1	4	%	ISO 527-2
Flexural Modulus (23°C)	9400	6400	MPa	ISO 178
Flexural Strength (23°C)	268	158	MPa	ISO 178

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Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	11	14	kJ/m²	
-30°C	10	9.8	kJ/m²	
-40°C	10	9.7	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	76	100	kJ/m²	
-30°C	66	71	kJ/m²	
-40°C	66	69	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	11	14	kJ/m²	
-30°C	10	9.5	kJ/m²	
-40°C	10	9.4	kJ/m²	
Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	248	243	°C	
0.45 MPa, Unannealed	260	258	°C	
Melting Temperature	262	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	19	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	81	*	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)	40	28	kV/mm	IEC 60243
Arc Resistance (3.00 mm)	6		-	ASTM D 495

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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
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	HB	-	
1.50 mm	HB	-	
3.00 mm	HB	-	
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	675	°C	
1.50 mm	675	°C	
3.00 mm	675	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	700	°C	
1.50 mm	700	°C	
3.00 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

