

Vydyne® AVS4AC5 BK0826

polyamide 66



Vydyne AVS4AC5 BK0826 is part of Ascend's Anti-Vibration System portfolio. It is a 35% glass filled specialty compound that is specifically designed to provide a high level of energy absorption for critical NVH components.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Heat Stabilizer		
Features	• Balanced Stiffness/Toughness • Good Processability • Oil Resistant	• Chemical Resistant • Good Strength	• Good Dimensional Stability • Heat Stabilized
Agency Rating	• ASTM, D4066 PA1100A5435	• ASTM, D6779 PA0800A5445	• ISO, 1043 PA GF35
Automotive Specifications	• GM GMW18603P-PA-GF35-T2		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.43	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	0.7	*	%	
Flow : 23°C, 2.00 mm	0.5	*	%	
Water Absorption				ISO 62
23°C, 24 hr	0.9	*	%	
Equilibrium, 23°C, 50% RH	1.9	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	11500	11200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	189	163	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	3	%	ISO 527-2
Flexural Modulus (23°C)	11100	11600	MPa	ISO 178
Flexural Strength (23°C)	260	236	MPa	ISO 178
Poisson's Ratio (23°C)	0.34		-	ISO 527-2

Vydyne® AVS4AC5 BK0826

polyamide 66



Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	10	9.1	kJ/m²	
-30°C	9.2	8.2	kJ/m²	
-40°C	9	8	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	72	58	kJ/m²	
-30°C	67	53	kJ/m²	
-40°C	67	52	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	9.7	9.1	kJ/m²	
-30°C	9.1	7.9	kJ/m²	
-40°C	8.8	7.7	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	180	179	°C	
0.45 MPa, Unannealed	240	229	°C	
Melting Temperature	265	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	16	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	72	*	E-6/K	

Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	27	26	kV/mm	IEC 60243

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Suggested Max Moisture	0.15	%
Rear Temperature	240 - 260	°C
Middle Temperature	280 - 300	°C
Front Temperature	280 - 300	°C
Nozzle temperature	280 - 305	°C
Processing (Melt) Temperature	275 - 295	°C
Mold Temperature	55 - 75	°C

