

Vydyne® AVS4BC1 BK0886

polyamide 66



Vydyne AVS4BC1 BK0886 is part of Ascend's Anti-Vibration System portfolio. AVS4BC1 BK0886 is a 35% glass filled PA66 specialty compound that is specifically designed to provide a good balance of energy absorption and mechanical stiffness for critical NVH components.

General

Regional Availability	• North America • South and Central America	• Europe • Near East/Africa	• Asia Pacific
Additive	• Heat Stabilizer	• Lubricant	
Features	• Balanced Stiffness/Toughness • Good Stiffness • Lubricated	• Fatigue Resistant • Good Tensile Strength	• Good Dimensional Stability • Heat Stabilized
Agency Rating	• ASTM, D4066 PA0100A5438	• ASTM, D6779 PA0100A5438	• ISO, 1043 PA66 GF35
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.42	-	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	0.2	*	%	
Water Absorption				ISO 62
23°C, 24 hr	1.1	*	%	
Equilibrium, 23°C, 50% RH	1.4	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	11500	9900	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	197	151	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.7	3	%	ISO 527-2
Flexural Modulus (23°C)	11100	8700	MPa	ISO 178
Flexural Strength (23°C)	287	193	MPa	ISO 178
Poisson's Ratio (23°C)	0.34	-	-	ISO 527-2

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Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	11	11	kJ/m²	
-30°C	10	8.7	kJ/m²	
-40°C	10	8.6	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	75	82	kJ/m²	
-30°C	65	65	kJ/m²	
-40°C	64	59	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	10	11	kJ/m²	
-30°C	9	9.5	kJ/m²	
-40°C	8.9	8.9	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	244	236	°C	
0.45 MPa, Unannealed	258	257	°C	
Melting Temperature	260	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	22	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	80	*	E-6/K	

Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	26	25	kV/mm	IEC 60243

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Suggested Max Moisture	0.15	%
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

