

Vydyne® R533H BK0667

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne R533H BK0667 is a black, 33% glass-filled polyamide resin for injection molding designed specifically to withstand exposure to calcium chloride for extended periods of time.

General Information				
Filler / Reinforcement		Glass Fiber,33% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
Features		Chlorine Resistant		
		Good Chemical Resistance		
		Good Crack Resistance		
		Heat Stabilized		
		Hydrolysis Resistant		
		Lubricated		
Uses		Automotive Under the Hood		
UL File Number		E70062		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	0.90	--	%	
Flow : 23°C, 2.00 mm	0.40	--	%	
Water Absorption				ISO 62
23°C, 24 hr	0.80	--	%	
Equilibrium, 23°C, 50% RH	1.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10700	6200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	190	125	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.8	4.0	%	ISO 527-2
Flexural Modulus (23°C)	9400	5300	MPa	ISO 178
Flexural Stress (23°C)	270	120	MPa	ISO 178
Poisson's Ratio	0.40	--		ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	8.0	kJ/m ²	
23°C	11	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	64	64	kJ/m ²	
23°C	73	79	kJ/m ²	
Notched Izod Impact Strength				ISO 180
-30°C	10	10	kJ/m ²	
23°C	12	14	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	220	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	1.8E-5	--	cm/cm/°C	
Transverse : 23 to 55°C, 2.00 mm	8.3E-5	--	cm/cm/°C	
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Suggested Max Regrind	25		%	
Rear Temperature	280 to 310		°C	
Middle Temperature	280 to 310		°C	
Front Temperature	280 to 310		°C	
Nozzle Temperature	280 to 310		°C	
Processing (Melt) Temp	285 to 305		°C	
Mold Temperature	65.0 to 95.0		°C	

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