

Product Texts

Vydyne R533H BK0667 is a 33% glass-filled, heat-stabilized PA66 based resin designed for injection molding applications. It was specifically developed to withstand long term exposure to road salts. R533H BK0667 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.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10800 / 7400	MPa	ISO 527
^[C] Stress at break	190 / 131	MPa	ISO 527
^[C] Strain at break	2.8 / 5	%	ISO 527
Flexural modulus, 23°C	9400 / 5300	MPa	ISO 178
Flexural strength	270 / 120	MPa	ISO 178
^[C] Charpy impact strength, +23°C	73 / 79	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	64 / 64	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	11 / 13	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	9 / 8	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	12 / 14	kJ/m ²	ISO 180/1A
Izod notched impact strength	10 / 10	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	262 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	220 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	220 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	18 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	83 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	0.8 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.3 / *	%	Sim. to ISO 62
^[C] Density	1380 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	285 - 305	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	280 - 310	°C	-
Zone 2	280 - 310	°C	-
Zone 3	280 - 310	°C	-
Nozzle temperature	280 - 310	°C	-

Characteristics

Processing

Injection Molding

Chemical Resistance

General Chemical Resistance, Environmental Stress Crack Resistance, Solvent Resistance, Hydrolytically Stable, Oil Resistance

Delivery form

Pellets, Black

Applications

Automotive

Additives

Lubricants

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Heat stabilized or stable to heat