

Product Texts

Vydyne 23HST BK0891 is an unfilled, heat-stabilized, lubricated injection-molding PA66 grade exhibiting high-toughness, excellent flow, and fast cycle time. 23HST BK0891 is designed principally for thin part molding such as cable ties fasteners. This product offers the main benefits of PA66 such as high strength, rigidity, and maintains flame resistance with excellent toughness in cold and dry environments.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.8 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.8 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2600 / 1200	MPa	ISO 527
^[C] Yield stress	71 / 47	MPa	ISO 527
^[C] Yield strain	4.7 / 21	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	11 / 23	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	6.1 / 7.4	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	66 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	196 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	77 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	84 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Electric strength	29 / 27	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	2.1 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2 / *	%	Sim. to ISO 62
^[C] Density	1140 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Additives

Lubricants, Release agent

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa