

Product Texts

Vydyne 22HSPCN NT0856 is a general-purpose, unfilled, lubricated, heat stabilized PA66 resin. Designed principally for injection-molding fabrication, this product offers a combination of engineering properties characterized by high strength; rigidity; good toughness; high melt point; good surface lubricity; abrasion resistance; and resistance to many chemicals, machine and motor oils, solvents and gasoline. this product is designed to resist thermal degradation when exposed to warm climates.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.6 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.7 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3300 / 1200	MPa	ISO 527
^[C] Yield stress	87 / 52	MPa	ISO 527
^[C] Yield strain	4.9 / 22	%	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	4.6 / 18	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	4.9 / 4.7	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	67 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	199 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	112 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	103 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	>1E13 / 4.19E10	Ohm*m	IEC 62631-3-1
^[C] Electric strength	30 / 23	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.7 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.9 / *	%	Sim. to ISO 62
^[C] Density	1130 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Natural Color

Additives

Lubricants, Release agent

Special Characteristics

Heat stabilized or stable to heat

Chemical Resistance

Solvent Resistance, Oil Resistance

Applications

General Purpose

Regional Availability

Asia Pacific