

Product Texts

Vydyne R550H NT0755 is a general purpose 50% glass-filled PA66 based resin designed for injection molding applications. R550H NT0755 is specifically designed to provided high stiffness and maximum retention of physical properties when exposed to heat and/or hydrolytic environments.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.2 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	17600 / 14300	MPa	ISO 527
^[C] Stress at break	254 / 205	MPa	ISO 527
^[C] Strain at break	2.3 / 3	%	ISO 527
^[C] Charpy impact strength, +23°C	100 / 111	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	100 / 102	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	16 / 19	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	16 / 16	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	252 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	261 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	13 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	63 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Electric strength	35 / 24	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.16 / *	%	Sim. to ISO 62
^[C] Density	1600 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets, Natural Color

Applications

General Purpose

Additives

Lubricants

Regional Availability

North America, Europe, Asia Pacific