

Product Texts

Vydyne R220 is a 40% mineral-reinforced PA66 resin formulated for improved impact strength. Available in natural, it is an injection-molding grade formulated to retain the inherent processing advantages of unreinforced PA66 while enhancing rigidity, strength and heat resistance. R220 maintains the chemical resistance typical of PA66 to a wide variety of chemicals, gasoline, oils, greases and solvents.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	6900 / 2600	MPa	ISO 527
^[C] Yield stress	103 / 73	MPa	ISO 527
^[C] Yield strain	1.5 / 16	%	ISO 527
^[C] Charpy impact strength, +23°C	140 / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	110 / 130	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	7 / 17	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	6 / 8	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	258 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	118 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	222 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	63 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	60 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.1 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.6 / *	%	Sim. to ISO 62
^[C] Density	1480 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Natural Color

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Features

Ductile

Chemical Resistance

General Chemical Resistance, Solvent Resistance, Grease Resistance, Oil Resistance

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific