Vydyne® AG10K

PA66-GF50 Ascend

Product Texts

Vydyne AG10K is a 50% glass fiber reinforced, heat and hydrolytically stabilized PA66 for injection molded applications.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.3 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.7 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**15700 / 12500**	MPa	ISO 527
[C] Stress at break	**219 / 165**	MPa	ISO 527
[C] Strain at break	**2.6 / 3.5**	%	ISO 527
[C] Charpy impact strength, +23°C	**89 / 97**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**83 / 83**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**14 / 18**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**14 / 13**	kJ/m²	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	**253 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**261 / ***	°C	ISO 75-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**>1E13 / -**	Ohm*m	IEC 62631-3-1
[C] Electric strength	**26 / 24**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**0.8 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.2 / ***	%	Sim. to ISO 62
[C] Density	**1550 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Additives
Release agent

Special Characteristics
Heat stabilized or stable to heat

Chemical Resistance
Hydrolytically Stable

Regional Availability
North America, Europe