Vydyne® B 50 GF BK EST K1

PA6-GF50 Ascend

Product Texts

Vydyne B 50 GF BK EST K1 is standard flow, heat stabilized, 50% glass-fiber reinforced PA6 resin. Available in black, this product is also lubricated for improved machine feed and flow.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.4 / ***	%	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	**15800 / 10800**	MPa	ISO 527
[C] Stress at break	**220 / 150**	MPa	ISO 527
[C] Strain at break	**2.5 / 5.5**	%	ISO 527
[C] Charpy impact strength, +23°C	**100 / 99**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**100 / 96**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**18 / 23**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**16 / 16**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**220 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**210 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**219 / ***	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**16 / ***	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**75 / ***	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	**24 / 22**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**1.1 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.4 / ***	%	Sim. to ISO 62
[C] Density	**1560 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Special Characteristics
Heat stabilized or stable to heat

Delivery form
Pellets, Black

Regional Availability
North America, Europe, Asia Pacific

Additives
Lubricants