# Vydyne® B 50 GF BK EST KW2

PA6-GF50 Ascend

## Product Texts

Vydyne B 50 GF BK EST KW2 is standard flow, organic 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 | **0.3 / *** | % | ISO 294-4, 2577 |
| [C] Molding shrinkage, normal | **0.5 / *** | % | 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 | **92 / 92** | kJ/m² | ISO 179/1eU |
| [C] Charpy impact strength, -30°C | **93 / 93** | kJ/m² | ISO 179/1eU |
| [C] Charpy notched impact strength, +23°C | **17 / 20** | kJ/m² | ISO 179/1eA |
| [C] Charpy notched impact strength, -30°C | **14 / 14** | 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 | **213 / *** | °C | ISO 75-1/-2 |
| [C] Temp. of deflection under load, 0.45 MPa | **220 / *** | °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 | **27 / 24** | kV/mm | IEC 60243-1 |

[C]: CAMPUS

| Other properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| [C] Water absorption | **1.3 / *** | % | Sim. to ISO 62 |
| [C] Humidity absorption | **1.3 / *** | % | Sim. to ISO 62 |
| [C] Density | **1570 / -** | 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