# TECHNYL C 218 V45 BK

PA6-GF45 DOMO Engineering Plastics

**Product Texts**

Polyamide 6, 45% glass fiber reinforced, heat-aging stabilized, improved flowability, for injection moulding, black

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Molding shrinkage, parallel | **0.3 / *** | % | ISO 294-4, 2577 |
| [C] Molding shrinkage, normal | **0.6 / *** | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Tensile Modulus | **14000 / 10000** | MPa | ISO 527 |
| [C] Stress at break | **220 / 150** | MPa | ISO 527 |
| [C] Strain at break | **2.7 / 5.8** | % | ISO 527 |
| Flexural modulus, 23°C | **12000 / 8500** | MPa | ISO 178 |
| Flexural strength | **335 / 240** | MPa | ISO 178 |
| [C] Charpy impact strength, +23°C | **100 / 105** | kJ/m² | ISO 179/1eU |
| [C] Charpy impact strength, -30°C | **95 / -** | kJ/m² | ISO 179/1eU |
| [C] Charpy notched impact strength, +23°C | **17 / 24** | kJ/m² | ISO 179/1eA |
| [C] Charpy notched impact strength, -30°C | **13 / -** | kJ/m² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Melting temperature, 10°C/min | **221 / *** | °C | ISO 11357-1/-3 |
| [C] Temp. of deflection under load, 1.80 MPa | **200 / *** | °C | ISO 75-1/-2 |
| [C] Temp. of deflection under load, 0.45 MPa | **220 / *** | °C | ISO 75-1/-2 |
| [C] Vicat softening temperature, B | **215 / *** | °C | ISO 306 |

[C]: CAMPUS

| Electrical properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Volume resistivity | **1E13 / -** | Ohm*m | IEC 62631-3-1 |
| [C] Surface resistivity | ***** / 1E13** | Ohm | IEC 62631-3-2 |

[C]: CAMPUS

| Other properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| [C] Density | **1520 / -** | kg/m³ | ISO 1183 |

[C]: CAMPUS

| Material specific properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Viscosity number | **125 / *** | cm³/g | ISO 307, 1157, 1628 |

**Characteristics**

**Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat

**Delivery form**

Black