

PENTALLOY BP CVB10 H black

(PA6+PP)-(CF+GB)10

Pentac Polymer GmbH

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|--|--------------------|-------------------|----------------------|
| ISO Data | | | |
| Molding shrinkage, parallel | 0.4 / * | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.5 / * | % | ISO 294-4, 2577 |
| Mechanical properties | | | |
| ISO Data | | | |
| Tensile Modulus | 6700 / 5000 | MPa | ISO 527 |
| Stress at break | 94 / 75 | MPa | ISO 527 |
| Strain at break | 2.1 / 3.2 | % | ISO 527 |
| Charpy impact strength, +23°C | 35 / 39 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 5 / 6 | kJ/m ² | ISO 179/1eA |
| Thermal properties | | | |
| ISO Data | | | |
| Melting temperature, 10°C/min | 222 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.80 MPa | 180 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 210 / * | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 1.6 / * | mm | - |
| Other properties | | | |
| Water absorption | 5 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.4 / * | % | Sim. to ISO 62 |
| Density | 1030 / - | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|-----------------|-------------|----------------------|
| Pre-drying - Temperature | 80 | °C | - |
| Pre-drying - Time | 3 | h | - |
| Processing humidity | ≤0.13 | % | - |
| Mold temperature | 60 - 100 | °C | - |
| Feed temperature | 80 | °C | - |
| Zone 1 | 250 | °C | - |
| Zone 2 | 255 | °C | - |
| Zone 3 | 260 | °C | - |
| Zone 4 | 270 | °C | - |
| Zone 5 | 260 | °C | - |

Characteristics**Processing**

Injection Molding

Certifications

RoHS compliant

Delivery form

Pellets, Black

Applications

Automotive, Encapsulation

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

Europe