Technical Data Sheet

Alcom®

ALBIS

# ALCOM MED PP 2040 BL1182-19

(Last update: 15.12.2022)

M⚙COM

| | |
|---|---|
| Base Polymer | Polypropylene Homopolymer |
| Filler/Additive System | 40 % glass fibres |
| Special Features | chemically coupled |
| Market Segment | Medical / Personal Care |
| Typical Applications | housings |

| | |
|---|---|
| Pre-Drying Conditions | in a dry air (dessiccant) dryer 80-120 °C<br>for 2-3 h<br>in an air circulating dryer 80-120 °C<br>for 2-4 h |
| Processing Injection Moulding | melt temperature 200-270 °C<br>mould temperature 20-90 °C |
| Storage | dry, protected from light |
| Minimum Shelf Life | months <24 |

| Properties | Value | Dimension | Based on Test Norm |
|---|---|---|---|
| **Mechanical Properties** | | | |
| Flexural Modulus | 8500 | MPa | ISO 178 |
| Flexural Strength | 160 | MPa | ISO 178 |
| Tensile Modulus | 9500 | MPa | ISO 527 |
| Tensile Strength at Break | 110 | MPa | ISO 527 |
| Tensile Elongation at Break | 2.4 | % | ISO 527 |
| Impact Strength (Charpy, 23°C) | 50 | kJ/m² | ISO 179/1eU |
| Impact Strength (Charpy, -40°C) | 45 | kJ/m² | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 9 | kJ/m² | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 8.5 | kJ/m² | ISO 179/1eA |
| **Thermal Properties** | | | |
| Vicat B50 | 143 | °C | ISO 306 |
| HDT / A (1,8 MPa) | 155 | °C | ISO 75-1/-2 |
| DSC (Melt Point) | 166 | °C | ISO 11357 |
| **Rheological Properties** | | | |
| Melt Index (MVR) | 4 | cm³/10min | ISO 1133 |
| MVR temperature | 230 | °C | - |
| MVR load | 2.16 | kg | - |
| Shrinkage (lengthwise, 24h) | 0.1 - 0.3 | % | ISO 294-4 |
| Shrinkage (lateral, 24h) | 0.4 - 0.6 | % | ISO 294-4 |

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## Physical Properties

| | | | |
|---|---|---|---|
| Density | 1230 | kg/m³ | ISO 1183 |

**Liability Exclusion**
These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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