Technical Data Sheet

# ALTECH PA66 A 1000/310 IM

(Last update: 27.02.2025)

| | |
|---|---|
| Base Polymer | Polyamide 66 |
| Colour | natural color,black,white |
| Special Features | heat stabilised,low temperature impact modified,easy flow,easy release (demoulding) |
| Market Segment | Automotive,Machinery |
| Application Area | injection moulded parts |
| Typical Applications | housings,various,injection moulded parts,cable guides,different automotive powertrain parts |

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|---|---|
| Pre-Drying Conditions | 80 °C in a dry air (dessiccant) dryer<br>for 2-12 h<br>dependant on moisture content<br>max. moisture content <0,15 % |
| Processing Injection Moulding | melt temperature 270-290 °C<br>mould temperature 60-100 °C |
| Storage | dry, protected from light |

| Properties | dry/cond. | Dimension | Test Norm |
|---|---|---|---|
| **Mechanical Properties** | | | |
| Flexural Modulus | 2000 / 900 | MPa | ISO 178 |
| Flexural Stress (3.5% Strain) | 65 / 25 | MPa | ISO 178 |
| Tensile Modulus | 2200 / 950 | MPa | ISO 527 |
| Tensile Stress at Yield | 55 / 35 | MPa | ISO 527 |
| Tensile Elongation at Yield | 4.5 / 18 | % | ISO 527 |
| Tensile Elongation at Break | 30 / 175 | % | ISO 527 |
| Impact Strength (Charpy, 23°C) | no break / 1000 | kJ/m² | ISO 179/1eU |
| Impact Strength (Charpy, -40°C) | no break / - | kJ/m² | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 60 / 100 | kJ/m² | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 18 / - | kJ/m² | ISO 179/1eA |
| **Thermal Properties** | | | |
| HDT / A (1,8 MPa) | 70 / * | °C | ISO 75-1/-2 |
| DSC (Melt Point) | 265 / * | °C | ISO 11357 |
| **Rheological Properties** | | | |
| Melt Index (MVR) | 30 / * | cm³/10min | ISO 1133 |
| MVR temperature | 275 / * | °C | - |
| MVR load | 5 / * | kg | - |
| Shrinkage (lengthwise, 24h) | 1.5 - 1.9 | % | ISO 294-4 |
| Shrinkage (lateral, 24h) | 1.5 - 1.9 | % | ISO 294-4 |

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## Physical Properties

| | | | |
|---|---|---|---|
| Density | 1100 / - | 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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