

**ALTECH PA6 A 3015/100 GK15**

(Last update: 05.02.2025)

**MOCOM**

|                        |                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------|
| Base Polymer           | Polyamide 6                                                                                 |
| Filler/Additive System | glass beads                                                                                 |
| Colour                 | black,natural color                                                                         |
| Special Features       | low warpage,heat stabilised,processing stabilised,nucleated,easy release (demoulding)       |
| Market Segment         | Automotive                                                                                  |
| Application Area       | injection moulded parts,exterior parts,interior decoration / finishing,clothing / fasteners |
| Typical Applications   | housings,functional components                                                              |

Pre-Drying Conditions      80 °C in a dry air (dessiccant) dryer  
for 2-12 h  
dependant on moisture content  
0,15 % max. moisture content

Processing Injection Moulding      melt temperature 270-290 °C  
mould temperature 80-100 °C

Storage      dry, protected from light

| Properties                               | dry/cond.   | Dimension         | Test Norm   |
|------------------------------------------|-------------|-------------------|-------------|
| <b>Mechanical Properties</b>             |             |                   |             |
| Flexural Modulus                         | 3300 / 1100 | MPa               | ISO 178     |
| Flexural Stress (3.5% Strain)            | - / 30      | MPa               | ISO 178     |
| Flexural Strength                        | 115 / -     | MPa               | ISO 178     |
| Tensile Modulus                          | 3700 / 1300 | MPa               | ISO 527     |
| Tensile Stress at Yield                  | - / 40      | MPa               | ISO 527     |
| Tensile Strength at Break                | 75 / -      | MPa               | ISO 527     |
| Tensile Elongation at Yield              | - / 19      | %                 | ISO 527     |
| Tensile Elongation at Break              | 3.2 / 140   | %                 | ISO 527     |
| Impact Strength (Charpy, 23 °C)          | 26 / 1000   | kJ/m <sup>2</sup> | ISO 179/1eU |
| Impact Strength (Charpy, -40 °C)         | 24 / -      | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23 °C)  | 3 / 11      | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40 °C) | 2 / -       | kJ/m <sup>2</sup> | ISO 179/1eA |
| <b>Thermal Properties</b>                |             |                   |             |
| HDT / A (1,8 MPa)                        | 68 / *      | °C                | ISO 75-1/-2 |
| DSC (Melt Point)                         | 220 / *     | °C                | ISO 11357   |
| <b>Rheological Properties</b>            |             |                   |             |
| Shrinkage (lengthwise, 24h)              | 1.1 - 1.5   | %                 | ISO 294-4   |
| Shrinkage (lateral, 24h)                 | 1.1 - 1.5   | %                 | ISO 294-4   |



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### Physical Properties

|         |          |                   |          |
|---------|----------|-------------------|----------|
| Density | 1230 / - | kg/m <sup>3</sup> | 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.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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