

## Technical Data Sheet



## ALTECH PA6 B 2025/309 GF25

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| Base Polymer           | Polyamide 6                                                               |
| Filler/Additive System | 25 % glass fibres                                                         |
| Colour                 | black,natural color                                                       |
| Special Features       | easy release (demoulding),easy flow,processing stabilised,heat stabilised |
| Market Segment         | Automotive,Machinery,building and construction                            |
| Application Area       | injection moulded parts,exterior parts                                    |
| Typical Applications   | housings,functional components,air duct                                   |

|                       |                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------|
| 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 80-100 °C |
|-------------------------------|------------------------------------------------------------|

|         |                           |
|---------|---------------------------|
| Storage | dry, protected from light |
|---------|---------------------------|

| Properties                             | Value     | Dimension         | Test Norm   |
|----------------------------------------|-----------|-------------------|-------------|
| <b>Mechanical Properties</b>           |           |                   |             |
| Flexural Modulus                       | 7500      | MPa               | ISO 178     |
| Flexural Strength                      | 220       | MPa               | ISO 178     |
| Tensile Modulus                        | 7800      | MPa               | ISO 527     |
| Tensile Strength at Break              | 150       | MPa               | ISO 527     |
| Tensile Elongation at Break            | 3         | %                 | ISO 527     |
| Impact Strength (Charpy, 23°C)         | 55        | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 8         | kJ/m <sup>2</sup> | ISO 179/1eA |
| <b>Thermal Properties</b>              |           |                   |             |
| HDT / A (1,8 MPa)                      | 210       | °C                | ISO 75-1/-2 |
| DSC (Melt Point)                       | 220       | °C                | ISO 11357   |
| <b>Rheological Properties</b>          |           |                   |             |
| Shrinkage (lengthwise, 24h)            | 0.1 - 0.3 | %                 | ISO 294-4   |
| Shrinkage (lateral, 24h)               | 0.5 - 0.7 | %                 | ISO 294-4   |
| <b>Physical Properties</b>             |           |                   |             |
| Density                                | 1310      | kg/m <sup>3</sup> | ISO 1183    |
| <b>Flammability</b>                    |           |                   |             |
| Flammability (0.75 mm)                 | HB        | class             | UL 94       |
| Yellow Card available                  | yes       | -                 | -           |