

## Technical Data Sheet



### ALTECH PA6 A 2030/319 GF30 IM

|                        |                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------|
| Base Polymer           | Polyamide 6                                                                                       |
| Filler/Additive System | 30 % glass fibres                                                                                 |
| Colour                 | black,grey,blue,natural color                                                                     |
| Special Features       | easy release (demoulding),elastomer modified,high toughness,heat stabilised,processing stabilised |
| Market Segment         | Automotive,Machinery,electrical and electronic                                                    |
| Application Area       | injection moulded parts,electrical components,interior decoration / finishing,exterior parts      |
| Typical Applications   | housings,functional components,handles                                                            |

|                       |                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------|
| 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 100-130 °C |
|-------------------------------|-------------------------------------------------------------|

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

| Properties                              | dry/cond.   | Dimension | Test Norm   |
|-----------------------------------------|-------------|-----------|-------------|
| <b>Mechanical Properties</b>            |             |           |             |
| Flexural Modulus                        | 6900 / 4400 | MPa       | ISO 178     |
| Flexural Strength                       | 175 / 120   | MPa       | ISO 178     |
| Tensile Modulus                         | 7500 / 4500 | MPa       | ISO 527     |
| Tensile Strength at Break               | 125 / 85    | MPa       | ISO 527     |
| Tensile Elongation at Break             | 3.7 / 10    | %         | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 75 / 85     | kJ/m²     | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 75 / -      | kJ/m²     | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 20 / 25     | kJ/m²     | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 12 / -      | kJ/m²     | ISO 179/1eA |
| <b>Thermal Properties</b>               |             |           |             |
| HDT / A (1,8 MPa)                       | 204 / *     | °C        | ISO 75-1/-2 |
| DSC (Melt Point)                        | 221 / *     | °C        | ISO 11357   |
| <b>Rheological Properties</b>           |             |           |             |
| Shrinkage (lengthwise, 24h)             | 0.2 - 0.4   | %         | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 0.6 - 0.8   | %         | ISO 294-4   |
| <b>Physical Properties</b>              |             |           |             |
| Density                                 | 1310 / -    | kg/m³     | ISO 1183    |

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(Last update: 27.02.2025)

#### Flammability

Flammability (1.5 mm)  
Yellow Card available

HB / \*  
yes / \*

class  
-

UL 94  
-

#### Diagrams

##### Stress-Strain

