

## Technical Data Sheet



### ALTECH PA66 A 2015/710 GF15 IM

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| Base Polymer           | Polyamide 66                                                    |
| Filler/Additive System | 15 % glass fibres                                               |
| Colour                 | black,natural color                                             |
| Special Features       | impact modified,heat stabilised,high surface gloss              |
| Market Segment         | various,Automotive                                              |
| Application Area       | various,injection moulded parts,interior decoration / finishing |
| Typical Applications   | housings,functional components                                  |

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

Processing Injection Moulding      melt temperature 280-300 °C  
mould temperature 80-120 °C

Storage      dry, protected from light

| Properties                              | dry/cond. | Dimension         | Test Norm   |
|-----------------------------------------|-----------|-------------------|-------------|
| <b>Mechanical Properties</b>            |           |                   |             |
| Flexural Modulus                        | 3500 / -  | MPa               | ISO 178     |
| Flexural Strength                       | 120 / -   | MPa               | ISO 178     |
| Tensile Modulus                         | 4100 / -  | MPa               | ISO 527     |
| Tensile Strength at Break               | 80 / -    | MPa               | ISO 527     |
| Tensile Elongation at Break             | 4.3 / -   | %                 | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 69 / -    | kJ/m <sup>2</sup> | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 80 / -    | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 22 / -    | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 12 / -    | kJ/m <sup>2</sup> | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                   |             |
| HDT / A (1,8 MPa)                       | 238 / *   | °C                | ISO 75-1/-2 |
| DSC (Melt Point)                        | 264 / *   | °C                | ISO 11357   |
| <b>Rheological Properties</b>           |           |                   |             |
| Shrinkage (lengthwise, 24h)             | 0.5 - 0.7 | %                 | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 1.1 - 1.3 | %                 | ISO 294-4   |
| <b>Physical Properties</b>              |           |                   |             |
| Density                                 | 1160 / -  | kg/m <sup>3</sup> | ISO 1183    |