

## Technical Data Sheet



### ALTECH PP IQ 2020/W100 HS

## MOCOM

|                        |                                                                                        |
|------------------------|----------------------------------------------------------------------------------------|
| Base Polymer           | Polypropylene                                                                          |
| Filler/Additive System | 20 % glass fibres                                                                      |
| Colour                 | black                                                                                  |
| Special Features       | heat stabilised, processing stabilised, contains recycled material, Industrial quality |
| Market Segment         | Automotive                                                                             |
| Typical Applications   | injection moulded parts                                                                |

|                               |                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 80-120 °C<br>for 2-3 h<br>in an air circulating dryer 80-120 °C<br>for 2-4 h<br>dependant on moisture content<br>max. moisture content <0,10 % |
| Processing Injection Moulding | melt temperature 200-250 °C<br>mould temperature 20-70 °C                                                                                                                      |
| Storage                       | dry, protected from light                                                                                                                                                      |

| Properties                              | Value | Dimension              | Test Norm   |
|-----------------------------------------|-------|------------------------|-------------|
| <b>Mechanical Properties</b>            |       |                        |             |
| Flexural Modulus                        | 3000  | MPa                    | ISO 178     |
| Flexural Strength                       | 60    | MPa                    | ISO 178     |
| Tensile Modulus                         | 3500  | MPa                    | ISO 527     |
| Tensile Strength at Break               | 43    | MPa                    | ISO 527     |
| Tensile Elongation at Break             | 4.5   | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 35    | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 27    | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 8     | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 4     | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>               |       |                        |             |
| HDT / A (1,8 MPa)                       | 141   | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |       |                        |             |
| Melt Index (MVR)                        | 25    | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 230   | °C                     | -           |
| MVR load                                | 2.16  | kg                     | -           |
| <b>Physical Properties</b>              |       |                        |             |
| Density                                 | 1040  | kg/m <sup>3</sup>      | ISO 1183    |