

## Technical Data Sheet



### ALTECH PP-H A 2020/750 GF20

## MOCOM

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| Base Polymer           | Polypropylene Homopolymer                                                           |
| Filler/Additive System | 20 % glass fibres                                                                   |
| Colour                 | black,natural color                                                                 |
| Special Features       | processing stabilised,high stiffness,chemically coupled,heat stabilised             |
| Market Segment         | electrical and electronic,building and construction,Automotive                      |
| Application Area       | electrical components,exterior parts,cooling system,interior decoration / finishing |
| Typical Applications   | housings,fixing elements,functional components,radiator grilles                     |

|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                        | 3900      | MPa       | ISO 178     |
| Flexural Strength                       | 105       | MPa       | ISO 178     |
| Tensile Modulus                         | 4800      | MPa       | ISO 527     |
| Tensile Strength at Break               | 80        | MPa       | ISO 527     |
| Tensile Elongation at Break             | 3.4       | %         | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 45        | kJ/m²     | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 25        | kJ/m²     | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 8         | kJ/m²     | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 5.5       | kJ/m²     | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |           |             |
| Vicat B50                               | 130       | °C        | ISO 306     |
| HDT / A (1,8 MPa)                       | 140       | °C        | ISO 75-1/-2 |
| DSC (Melt Point)                        | 169       | °C        | ISO 11357   |
| <b>Rheological Properties</b>           |           |           |             |
| Melt Index (MVR)                        | 5         | cm³/10min | ISO 1133    |
| MVR temperature                         | 230       | °C        | -           |
| MVR load                                | 2.16      | kg        | -           |
| Shrinkage (lengthwise, 24h)             | 0.3 - 0.5 | %         | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 0.4 - 0.6 | %         | ISO 294-4   |
| <b>Physical Properties</b>              |           |           |             |
| Density                                 | 1030      | kg/m³     | ISO 1183    |