

## Technical Data Sheet



### ALTECH PBT A 2030/347 GF30 FR

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| Base Polymer           | Polybutylene Terephthalate                                                      |
| Filler/Additive System | 30 % glass fibres                                                               |
| Special Features       | flame retardant,easy flow,heat stabilised,impact modified,processing stabilised |
| Market Segment         | Machinery,electrical and electronic                                             |
| Application Area       | electrical components                                                           |
| Typical Applications   | injection moulded parts,functional components                                   |

|                       |                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions | in a dry air (dessiccant) dryer 100-120 °C<br>for 2-4 h<br>in an air circulating dryer 100-120 °C<br>for 4-8 h<br>dependant on moisture content<br>max. moisture content <0,02 % |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| Processing Injection Moulding | melt temperature 250-270 °C<br>mould temperature 80-120 °C |
|-------------------------------|------------------------------------------------------------|

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

| Properties                              | Value     | Dimension | Test Norm   |
|-----------------------------------------|-----------|-----------|-------------|
| <b>Mechanical Properties</b>            |           |           |             |
| Flexural Modulus                        | 9200      | MPa       | ISO 178     |
| Flexural Strength                       | 165       | MPa       | ISO 178     |
| Tensile Modulus                         | 9600      | MPa       | ISO 527     |
| Tensile Strength at Break               | 105       | MPa       | ISO 527     |
| Tensile Elongation at Break             | 2         | %         | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 50        | kJ/m²     | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 45        | kJ/m²     | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 9         | kJ/m²     | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 5.5       | kJ/m²     | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |           |             |
| Vicat B50                               | 209       | °C        | ISO 306     |
| HDT / A (1,8 MPa)                       | 209       | °C        | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |           |             |
| Shrinkage (lengthwise, 24h)             | 0.2 - 0.4 | %         | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 1 - 1.4   | %         | ISO 294-4   |
| <b>Physical Properties</b>              |           |           |             |
| Density                                 | 1640      | kg/m³     | ISO 1183    |
| <b>Flammability</b>                     |           |           |             |
| Flammability (1.5 mm)                   | V-2       | class     | UL 94       |