

## Technical Data Sheet



## ALTECH ABS A 1000/627 UV

|                        |                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------|
| Base Polymer           | Acrylonitrile/Butadiene/Styrene/Copolymer                                                                |
| Filler/Additive System | light stabiliser                                                                                         |
| Colour                 | black,grey                                                                                               |
| Special Features       | high heat stabilised,good flow,processing stabilised,injection moulding grade,low emission,UV stabilised |
| Market Segment         | Automotive                                                                                               |
| Application Area       | injection moulded parts,bezels,functional components                                                     |

|                       |                                                                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions | 80 °C in a dry air (dessiccant) dryer<br>for 2-4 h<br>80 °C in an air circulating dryer<br>for 3-6 h<br>dependant on moisture content<br>max. moisture content <0,20 % |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Processing Injection Moulding | melt temperature 200-240 °C<br>mould temperature 50-80 °C |
|-------------------------------|-----------------------------------------------------------|

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

| Properties                              | Value     | Dimension              | Test Norm   |
|-----------------------------------------|-----------|------------------------|-------------|
| <b>Mechanical Properties</b>            |           |                        |             |
| Flexural Modulus                        | 2400      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 72        | MPa                    | ISO 178     |
| Tensile Modulus                         | 2300      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 48        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 2.7       | %                      | ISO 527     |
| Tensile Elongation at Break             | 13        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 100       | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 13        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 5         | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 103       | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 88        | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 23        | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 220       | °C                     | -           |
| MVR load                                | 10        | kg                     | -           |
| Shrinkage (24h)                         | 0.5 - 0.8 | %                      | ISO 294-4   |

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(Last update: 11.03.2025)

Physical Properties

|         |      |       |          |
|---------|------|-------|----------|
| Density | 1080 | kg/m³ | ISO 1183 |
|---------|------|-------|----------|

Flammability

|                                 |        |       |              |
|---------------------------------|--------|-------|--------------|
| Flammability (1.5 mm)           | HB     | class | UL 94        |
| Glow Wire (GWFI, 650 °C, 1.0mm) | passed | -     | DIN EN 60695 |
| Glow Wire (GWFI, 650 °C, 2.0mm) | passed | -     | DIN EN 60695 |