

## Technical Data Sheet



### ALTECH ABS A 1000/132 AS UV

## MOCOM

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| Base Polymer           | Acrylonitrile/Butadiene/Styrene/Copolymer                                |
| Filler/Additive System | light stabiliser,antistatic - permanent                                  |
| Colour                 | grey,white                                                               |
| Special Features       | slip agent,easy flow,UV stabilised,heat stabilised,processing stabilised |
| Market Segment         | building and construction,electrical and electronic                      |
| Application Area       | injection moulded parts,domestic appliances,housings                     |

|                       |                                                                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                        | 2550      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 68        | MPa                    | ISO 178     |
| Tensile Modulus                         | 2500      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 46        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 2         | %                      | ISO 527     |
| Tensile Elongation at Break             | 22        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 90        | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 63        | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 10        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 5         | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Ball Indentation Hardness H358/30       | 106       | MPa                    | ISO 2039-1  |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 93        | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 83        | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 43        | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 220       | °C                     | -           |
| MVR load                                | 10        | kg                     | -           |
| Shrinkage (24h)                         | 0.4 - 0.7 | %                      | ISO 294-4   |

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#### Physical Properties

|         |      |                   |          |
|---------|------|-------------------|----------|
| Density | 1050 | kg/m <sup>3</sup> | 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 |