

**ALTECH ABS A 1000/132 AS UV**

(Last update: 04.05.2022)

**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 |

### Additional Information

For activation of the additive a minimum atmospheric moisture of 40% is needed.

### Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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