

## Technical Data Sheet



### ALTECH ASA A 1000/729 UV

|                        |                                          |
|------------------------|------------------------------------------|
| Base Polymer           | Acrylonitrile/Styrene/Acrylate/Copolymer |
| Filler/Additive System | light stabiliser                         |
| Colour                 | grey,black,orange                        |
| Special Features       | UV stabilised,injection moulding grade   |
| Typical Applications   | various,exterior parts                   |

|                               |                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <0,02 % |
| Processing Injection Moulding | melt temperature 240-280 °C<br>mould temperature 40-80 °C                                                                                                              |
| Storage                       | dry, protected from light                                                                                                                                              |

| Properties                              | Value     | Dimension              | Test Norm            |
|-----------------------------------------|-----------|------------------------|----------------------|
| <b>Mechanical Properties</b>            |           |                        |                      |
| Flexural Modulus                        | 2200      | MPa                    | ISO 178              |
| Flexural Stress (3.5% Strain)           | 60        | MPa                    | ISO 178              |
| Tensile Modulus                         | 2100      | MPa                    | ISO 527              |
| Tensile Stress at Yield                 | 41        | MPa                    | ISO 527              |
| Tensile Elongation at Yield             | 2.9       | %                      | ISO 527              |
| Tensile Elongation at Break             | 20        | %                      | ISO 527              |
| Impact Strength (Charpy, 23°C)          | 175       | kJ/m <sup>2</sup>      | ISO 179/1eU          |
| Impact Strength (Charpy, -40°C)         | 60        | kJ/m <sup>2</sup>      | ISO 179/1eU          |
| Notched Impact Strength (Charpy, 23°C)  | 12        | kJ/m <sup>2</sup>      | ISO 179/1eA          |
| Notched Impact Strength (Charpy, -40°C) | 2.5       | kJ/m <sup>2</sup>      | ISO 179/1eA          |
| Ball Indentation Hardness H358/30       | 75        | MPa                    | ISO 2039-1           |
| <b>Thermal Properties</b>               |           |                        |                      |
| Vicat B50                               | 95        | °C                     | ISO 306              |
| HDT / A (1,8 MPa)                       | 85        | °C                     | ISO 75-1/-2          |
| Ball Indentation Temperature            | 75        | °C                     | DIN EN<br>60695-10-2 |
| <b>Rheological Properties</b>           |           |                        |                      |
| Melt Index (MVR)                        | 17        | cm <sup>3</sup> /10min | ISO 1133             |
| MVR temperature                         | 220       | °C                     | -                    |
| MVR load                                | 10        | kg                     | -                    |
| Shrinkage (24h)                         | 0.6 - 0.8 | %                      | ISO 294-4            |

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(Last update: 02.12.2024)

Physical Properties

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

Flammability

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