

## ALCOM LB ECO PC+ABS 1000 WT1191-20

(Last update: 24.10.2023)

### MOCOM

|                        |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| Base Polymer           | Polycarbonate +Acrylonitrile Butadiene Styrene Blend                                                   |
| Filler/Additive System | special filler                                                                                         |
| Special Features       | injection moulding grade,easy release (demoulding),highly reflective,opaque,contains recycled material |
| Market Segment         | Automotive,Lighting                                                                                    |
| Application Area       | lighting,light blocking components                                                                     |
| Typical Applications   | light guides,reflectors                                                                                |

|                               |                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 100-110 °C<br>for 2-4 h<br>in an air circulating dryer 100-110 °C<br>for 4-8 h<br>max. moisture content <0,02 % |
| Processing Injection Moulding | melt temperature 250-280 °C<br>mould temperature 70-100 °C                                                                                      |
| Storage                       | dry, protected from light                                                                                                                       |

| Properties                              | Value   | Dimension              | Test Norm   |
|-----------------------------------------|---------|------------------------|-------------|
| <b>Mechanical Properties</b>            |         |                        |             |
| Flexural Modulus                        | 2600    | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 73      | MPa                    | ISO 178     |
| Tensile Modulus                         | 2500    | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 48      | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 4.2     | %                      | ISO 527     |
| Tensile Elongation at Break             | 40      | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 250     | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 225     | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 40      | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 20      | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Ball Indentation Hardness H358/30       | 108     | MPa                    | ISO 2039-1  |
| <b>Thermal Properties</b>               |         |                        |             |
| Vicat B50                               | 128     | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 110     | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |         |                        |             |
| Melt Index (MVR)                        | 12      | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 260     | °C                     | -           |
| MVR load                                | 5       | kg                     | -           |
| Shrinkage (24h)                         | 0.7 - 1 | %                      | ISO 294-4   |



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### Physical Properties

|         |      |                   |          |
|---------|------|-------------------|----------|
| Density | 1270 | kg/m <sup>3</sup> | ISO 1183 |
|---------|------|-------------------|----------|

### Ecological Properties

|                                |      |                           |                  |
|--------------------------------|------|---------------------------|------------------|
| Global Warming Potential (GWP) | 1.47 | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |
|--------------------------------|------|---------------------------|------------------|

### Flammability

|                       |    |       |       |
|-----------------------|----|-------|-------|
| Flammability (1.5 mm) | HB | class | UL 94 |
|-----------------------|----|-------|-------|

### Optical Properties

|                                               |      |   |           |
|-----------------------------------------------|------|---|-----------|
| Tristimulus Value Y10 of Reflection (d=2,0mm) | 92.5 | % | DIN 5033  |
| Tristimulus Value Y10 of Transm., d=0.5mm     | 0.3  | % | ISO 13468 |

### Additional Information

When using raw materials from a recycling process, as with prime materials, ferrous / non-ferrous residues can never be completely excluded. To minimize the risk of possible effects of such residues, MOCOM uses extensive detection and separation systems in the production process of its compounds. However, even these quality assurance systems cannot guarantee that the resulting product is 100% free of such residues. Therefore, we recommend our customers to additionally use their own detection and separation systems adapted to their respective process. For further questions and specific advice in connection with MOCOM products, please do not hesitate to contact our application engineering department. The ecological properties listed in this document were calculated for a production in one of our European plants. Data for production in the United States or China can be provided by sending a request to the following address. [technical@mocom.eu](mailto:technical@mocom.eu)

### 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.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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