

## Technical Data Sheet



### ALCOM LB ECO PC+ABS 1000 WT1185-20

## MOCOM

|                      |                                                      |
|----------------------|------------------------------------------------------|
| Base Polymer         | Polycarbonate +Acrylonitrile Butadiene Styrene Blend |
| Colour               | cool white                                           |
| Special Features     | highly reflective,opaque,contains recycled material  |
| Market Segment       | Automotive,electrical and electronic,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                        | 2700      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 73        | MPa                    | ISO 178     |
| Tensile Modulus                         | 2700      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 50        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 4.3       | %                      | ISO 527     |
| Tensile Elongation at Break             | 35        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 210       | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 45        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 17        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Ball Indentation Hardness H358/30       | 110       | MPa                    | ISO 2039-1  |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 128       | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 109       | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 8.5       | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 260       | °C                     | -           |
| MVR load                                | 5         | kg                     | -           |
| Shrinkage (24h)                         | 0.7 - 0.9 | %                      | ISO 294-4   |

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#### Physical Properties

|         |      |                   |          |
|---------|------|-------------------|----------|
| Density | 1300 | kg/m <sup>3</sup> | ISO 1183 |
|---------|------|-------------------|----------|

#### Ecological Properties

|                                |      |                           |                  |
|--------------------------------|------|---------------------------|------------------|
| Global Warming Potential (GWP) | 1.41 | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |
|--------------------------------|------|---------------------------|------------------|

#### Optical Properties

|                                               |     |   |           |
|-----------------------------------------------|-----|---|-----------|
| Tristimulus Value Y10 of Reflection (d=2,0mm) | 92  | % | DIN 5033  |
| Tristimulus Value Y10 of Transm.,d=0.5mm      | 0.1 | % | ISO 13468 |