

## **AUROform POM C09 black**

POM, unfilled, black

|   | <b>Test Standard</b> | <b>Unit</b>             | <b>Value</b> |
|---|----------------------|-------------------------|--------------|
| <b>General</b>                                |                      |                         |              |
| Density                                       | ISO 1183             | g/cm <sup>3</sup>       | 1,40 ± 0,02  |
| Humidity absorption (23°C, 50% r.H.)          | ISO 62               | %                       | 0,2 ± 0,1    |
| Water absorption (23°C, Wasser)               | ISO 62               | %                       | 0,7 ± 0,1    |
| <b>Processing</b>                             |                      |                         |              |
| Melting temperature, DSC                      | ISO 11357-1/-3       | °C                      | 166          |
| MVR 190°C /2,16 kg                            | ISO 1133             | cm <sup>3</sup> /10 min | 15 ± 5       |
| Molding shrinkage, parallel                   | ISO 294-4            | %                       | 2,0 ± 0,2    |
| Molding shrinkage, normal                     | ISO 294-4            | %                       | 1,8 ± 0,2    |
| <b>Mechanical properties</b>                  |                      |                         |              |
| dry   |                      |                         |              |
| Tensile modulus                               | ISO 527-1/-2         | MPa                     | 2.700        |
| Stress at break                               | ISO 527-1/-2         | MPa                     | 55           |
| Strain at break                               | ISO 527-1/-2         | %                       | 7            |
| Charpy impact strength (23°C)                 | ISO 179/1eU          | kJ/m <sup>2</sup>       | 160          |
| Charpy impact strength (-30°C)                | ISO 179/1eU          | kJ/m <sup>2</sup>       | -            |
| Charpy notched impact strength (23°C)         | ISO 179/1eA          | kJ/m <sup>2</sup>       | 5,0          |
| Charpy notched impact strength (-30°C)        | ISO 179/1eA          | kJ/m <sup>2</sup>       | -            |
| Temperature of deflection under load 1,8 MPa  | ISO 75-1/-2          | °C                      | 199          |
| Temperature of deflection under load 0,45 MPa | ISO 75-1/-2          | °C                      | 217          |
| UL 94, not accredited measurement             | ISO 1210<br>(1,6 mm) | -                       | HB           |

Processing:

Pre-Drying: 100 – 120°C / 3 – 6 h

Melt temperature: 190-210°C; Mold temperature: 80-90°C

The data provided in this data sheet are based on the information available at the time of publication. No warranted characteristics and guarantee can be derived from this data. Product properties may be influenced and changed by a wide range of factors (e.g. tool design, processing conditions ...). We exclude any liability for improper use of the product described in this data sheet. The processor shall conduct comprehensive internal tests regarding the suitability of the product for the intended application.

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