

## MATERIAL DATA SHEET

**ECOTAL (black)**  
**Polyoxymethylene (POM)**  
**(also known under „Polyacetale“)**

| Property                              | Unit              | Value         | Standard     |
|---------------------------------------|-------------------|---------------|--------------|
| Density                               | g/cm <sup>3</sup> | 1,40          | DIN 53479    |
| Ball hardnessH 358/30                 | N/mm <sup>2</sup> | 135           | DIN 53456    |
| Durometer hardness                    | Shore D           | 82            | DIN 53505    |
| Yield stress                          | N/mm <sup>2</sup> | 62            | DIN 53455    |
| Elongation at yield                   | %                 | 8 - 10        | DIN 53455    |
| Elongation at break                   | %                 | 40            | DIN 53455    |
| Tensile-modulus                       | N/mm <sup>2</sup> | 2600          | DIN 53457    |
| Izod-Impact resistance<br>at + 23°C   | kJ/m <sup>2</sup> | 70            | ISO 180      |
| at - 30°C                             | kJ/m <sup>2</sup> | 40            | ISO 180      |
| Water absorption, 23°C,<br>saturation | %                 | 0,8           | DIN 53495/L2 |
| Coefficient of sliding                | μ                 | 0,17 bis 0,43 | ----         |
| Minimum service temperature           | °C                | - 50          | ----         |
| Maximum service temperature           | °C                | +100          | ----         |

The mentioned data are only valid for test pieces of the corresponding ISO, DIN and ASTM standards and cannot be directly related to gaskets and joints. These values are only tested on selected samples.