

## Material

### 80 NBR B281

**Revision Index**  
 03

**Revision Date**  
 13.06.2013

**General Data**

Colour: black

**Physical Properties**

|                                                          | Nominal Range | Typical Value     |
|----------------------------------------------------------|---------------|-------------------|
| <b>Density</b> DIN EN ISO 1183-1, 23 °C                  | 1.22          | g/cm <sup>3</sup> |
| <b>Hardness</b> DIN ISO 7619-1, Shore A, 23 °C           | 79            | Shore             |
| <b>Hardness</b> DIN ISO 7619-1, IRHD, 23 °C              | 83            | Shore             |
| <b>Tensile strength</b> DIN 53504, S2, 23 °C             | 24            | MPa               |
| <b>Elongation at break</b> DIN 53504, S2, 23 °C          | 234           | %                 |
| <b>Modulus</b> 100 %, DIN 53504, S2, 23 °C               | 7.8           | MPa               |
| <b>Tear strength</b> DIN 53507, A, 23 °C                 | 19            | KN/m              |
| <b>Compression set</b> DIN ISO 815, B, 24 h, 70 °C, 25 % | 12            | %                 |
| <b>Compression set</b> DIN ISO 815, B, 24 h, 70 °C, 25 % | 28            | %                 |
| <b>Compression set</b> ASTM-D 395, B, 24 h, 70 °C, 25 %  | 12            | %                 |
| <b>Compression set</b> ASTM-D 395, B, 70 h, 100 °C, 25 % | 28            | %                 |
| <b>Glass transition temperature</b> DIN 53765, DSC       | -15           | °C                |
| <b>Low temperature resistance</b> DIN 53546, Brittleness | -40           | °C                |

**Temperature Range**

static: -30 to 100 °C

The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. The data from finished parts can deviate from above values depending on the manufactories process and the component geometry. The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisions do not plan for something else.

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