


material specification

s-mart NBR 85A LT black

(acrylonitrile butadiene rubber, 85 shore A, for low temperature)

|  | property | | | unit | value | standard |
|--|----------|--|--|-------------------|---------|-------------------|
| | | | | | | |
| color | | | | | ● black | |
| durometer hardness | | | | Shore A | 84 | DIN 53505 |
| density | | | | g/cm ³ | 1,29 | DIN EN ISO 1183-1 |
| tensile strength | | | | N/mm ² | 16 | DIN 53504 |
| elongation at break | | | | % | 130 | DIN 53504 |
| 100 % modulus | | | | N/mm ² | 13 | DIN 53504 |
| compression set: 100°C / 22h | | | | % | 14 | DIN ISO 815 |
| tear strength | | | | N/mm | 17 | DIN ISO 34-1 |
| abrasion | | | | mm ³ | 90 | DIN 53516 |
| minimum service temperature | | | | °C | -50 | ---- |
| maximum service temperature | | | | °C | 100 | ---- |
| glass transition temperature | | | | °C | -48 | DSC |

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. the values which are marked with the symbols greater than (\geq) and smaller than (\leq) are nominal values and must be fulfilled of each batch. all values which are not marked are typical values which are only tested on selected samples.