

NBR



NBR P 518 Special application

General:

NBR, black
Sulphur crosslinked

*certified according to **DIN EN 682**

For seals used in pipes and fittings carrying gas and hydrocarbon fluids, type GB, working temperature -5 to +50°C

*certified according to **DIN EN 549**

For seals for gas appliances and gas equipment, hardness H3, temperature class B1

special production – please note minimum order quantity

Wrapping: stretched foil, labelled
standard finishing in separation foil

*SVHC-free

Properties:

| | | |
|---------------------------|---------------|-------|
| Hardness [Shore A]: | ISO 7619-1 | 80±5 |
| Density [g/cm³]: | ISO 1183-1 | ~1,35 |
| Tensile Strength [N/mm²]: | ISO 37 type 2 | 10 |
| Elongation at Break [%]: | ISO 37 type 2 | 150 |
| ACN content: | | 29 % |

correspond to WDK-guideline 2201 : 2020-10 "Quality characteristics of Elastomer sheets- and plates"

Working temperature range

| | | | |
|--------|-------------|-------|------------|
| Medium | dyn.(stat.) | max. | short-term |
| Air | (-5)°C | +80°C | +110°C |

Compression set DIN ISO 815

| | | |
|----------|-------------|------|
| Duration | Temperature | CS |
| 168h | +100°C | 40 % |

Ageing ISO 188

| | | | |
|--------------|------------|----------|------------|
| Conditions | Hardness | Strength | Elongation |
| 168h / 100°C | 10 Shore A | 40% | 40% |

Swelling ISO 1817

| | | | |
|-------------------|----------------------------|----------|--------------------|
| Medium | Conditions | Hardness | Volume |
| IRM 903 Fuel B | 168h / 70°C 168h / 23°C | | +10 / -1 % 30 % |

Stabilities:

| | |
|----------------------------|----------------------|
| Ozone resistance: | moderately resistant |
| Weather resistance: | non resistant |
| Oil resistance: | good resistant |
| Fuel resistance: | resistant |
| (only alcohol-free fuels!) | |
| Acid resistance: | resistant |
| Strong bases: | resistant |

| ROTACURED SHEETS product number | Thickness mm | Width mm | Length mm |
|------------------------------------|-----------------|-------------|--------------|
| 401118100 | 1,0 | 1.400 | 20.000 |
| 401118200 | 2,0 | 1.400 | 20.000 |
| 401118300 | 3,0 | 1.400 | 10.000 |
| 401118400 | 4,0 | 1.400 | 10.000 |
| 401118500 | 5,0 | 1.400 | 10.000 |
| 401118600 | 6,0 | 1.400 | 10.000 |

PAH disclaimer:

Referring to an international proficiency test and information received from the testing laboratories about accuracy of test results we may inform you, that test results for the same specimen from different laboratories may not correlate:

* Results of the 10 PAH with individual limits of < 1 mg/kg in the measurement range around the limit are only accurate to approx. ± 70%.

* Results of the overall limit of < 50 mg/kg are only accurate to approx. ± 35%

Our test results are provided on an as-is basis and to the best of our knowledge, without any legally binding commitment. Our tests do not release you from own tests as to the respective application envisaged.

Please note:

This datasheet has been carefully compiled to advise you, our customer, in the best possible way. The information, figures, test values and data correspond to actual engineering standards and are the result of many years of tests and trials. As individual operation conditions influence the application of each product, the information supplied in this datasheet can only be seen as a rough guideline. In every case it is the sole responsibility of the customer to evaluate his individual requirements, in particular whether specified properties of our products are sufficient for the intended use. If there is any doubt (e.g. chemical resistance), do not hesitate to contact our qualified engineers. The use of our products is at the user's own risk. We do not have any influence concerning the application and individual usage. We do of course warrant the quality of our products according to our General Sales Conditions, available on our website or on request. ©Copyright 2020 Semperit Technische Produkte GmbH

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