NBR 60.10-01

Angst+Pfister

Sealing Technology
Technical Data Sheet

General compound description

Material name, short description	NBR
Material name, based on technical standards	Acrylic-Butadiene-Rubber
Compound Code	NBR 60.10-01
Material description / intended use	Elastomer with a good resistance against mineral and vegetable oils and greases, alkalis, alcohols, gas, water, glycollics and saline solutions.
Color	black
Remarks	D2000 SAEJ200-M2 BG 610 A14 B14 EA14 EF11 EF21 EO14 EO34 F15

Mechanical properties	
Density	1.19 g/cm³ ± 0.03 ASTM D 297
Hardness	60 Shore A ± 5
Tensile strength	12 MPa ASTM D 412-C
Elongation at break	300 % ASTM D 412-C
Compression set	12.0 % ASTM D 395-B 22 h, 100 °C, deformation 25%
	28 % DIN 53517-A 70 h, 125 °C, deformation 25%
Tear resistance	40 N/mm ASTM D 624-B

Thermal properties	
Min. operating temperature	-30 °C
Max. operating temperature	125 °C
Note to operating temperature	approximate value, dependent of the application
TR 10 value	-28 °C ASTM D 1329
Brittleness point	-30 °C ASTM D 2137-A

Chemical state change	
Air aging	
Value change 1	Hardness: +5 Points Tensile strength: +15 % Elongation at break: -20 % Test norm: ASTM D 573 Test parameter: 70 h, 100 °C
Storage in medium	
Value change 1	Medium: IRM 901 Oil (ASTM 1) Hardness: +6 Points Tensile strength: +12 % Elongation at break: -22 % Volume: -8 % Test norm: ASTM D 471 Test parameter: 70 h, 100 °C
Value change 2	Medium: IRM 902 Oil (ASTM 2) Hardness: 0 Points Volume: -1 % Test norm: DIN 53521 Test parameter: 168 h, 100 °C
Value change 3	Medium: IRM 903 Oil (ASTM 3) Hardness: -5 Points Tensile strength: +4 % Elongation at break: -15 % Volume: +10 % Test norm: ASTM D 471 Test parameter: 70 h, 100 °C
Value change 4	Medium: ASTM Fuel A Hardness: +1 Points Tensile strength: -8 % Elongation at break: -8 % Volume: -2 % Test norm: ASTM D 471 Test parameter: 70 h, 23 °C
Value change 5	Medium: ASTM Fuel B Hardness: -20 Points Tensile strength: -50 % Elongation at break: -50 % Volume: +30 % Test norm: ASTM D 471 Test parameter: 70 h, 23 °C

Approvals of this compound

DVGW EN 549 B1 (0-80°C) H2

DVGW

In compliance with **RoHS** and **REACH** directives.