

Material name, short description	EPDM
Material name, based on technical standards	Ethylene-propylene-diene rubber
Material description / intended use	Elastomer with good resistance to hot water and vapour as well as UV and ozone.
Color	black
Compound code	EPDM 70.00-02
Crosslinking/curing agent	Sulfur
Manufacturing process	moulded parts

Mechanical properties

Hardness nominal	70 ±5 Shore A ASTM D 2240
Density nominal	1.19 g/cm³ ASTM D 297
Tensile strength	12.1 N/mm² ASTM D 412
Elongation at break	340 % ASTM D 412
Compression set	41 % ASTM D 395-B 22 h, 125 °C
Tear resistance	46 N/mm ASTM D 624-C

Thermal properties

Operating temperature min.*	-45 °C
Operating temperature max.*	130 °C
TR 10 value	-41 °C ASTM D 1329
Brittleness point	-40 °C ASTM D 2137

* Approximate value, dependent on the application

Storage in medium 1

Medium	Water
Test parameter	70 h, 100 °C
Test standard	ASTM D 471
Value change	Volume: +3 %

Air aging 1

Test parameter	70 h, 125 °C
Test standard	ASTM D 573
Value change	Hardness: +3 Points Tensile strength: +12 % Elongation at break: -22 %

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

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.