

EPDM 60.10-04

Sealing Technology Technical Data Sheet

General compound description

Material name, short description	EPDM
Material name, based on technical standards	Ethylene-propylene-diene rubber
Compound Code	EPDM 60.10-04
Material description / intended use	Elastomer with a good resistance to hot water and vapour, ageing- and weather-resistant. Not resistant against mineral oils and greases.
Crosslinking agent	peroxid
Color	black

Mechanical properties

Density	1.15 g/cm ³ ± 0.03 ASTM D 297
Hardness	60 Shore A ± 5 ASTM D 2240
Tensile strength	14.3 MPa ASTM D 412-C
Elongation at break	216 % ASTM D 412-C
Compression set	5.0 % ISO 815-B 24 h, 125 °C, 25 % deformation
	9 % DIN 53517-A 72 h, 23 °C, 25 % deformation
Tear resistance	26 N/mm ASTM D 624-B

Thermal properties

Min. operating temperature	-40 °C
Max. operating temperature	+130 °C
Note to operating temperature	approximate value, dependent of the application
Brittleness point	-50 °C ASTM D 2137-A

Chemical state change

Air aging	
Value change 1	Hardness: +1 Points Tensile strength: +2 % Elongation at break: +5 % Volume: -2 % Weight: -2 % Test norm: ASTM D 573 Test parameter: 168 h, 125 °C
Ozone test	
Value change	Concentration: 200 pphm Temperature: 40 °C Duration: 70 h Elongation: 50 % Result: Passed

Approvals of this compound

CLP (DGS/VS4) for drinking water 99/217 and 2000/232

DVGW EN 681-1 WB

DVGW W 270

FDA - CFR 21 - 177.2600 food Chapter a) - f)

NSF Standard 61 for drinking water cold and warm water up to 82 °C

UBA Guideline for elastomeric materials in contact with drinking water Sealings for pipes with DN < 80mm, cold water (23 °C) and hot water (85 °C)

WRAS (BS 6920) for drinking water cold and hot water (85 °C)



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.

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