



Material description

The elastic material for **Flexjoint EP** consists of an EPDM elastomer (ethylen-propylen-diene unvulcanized rubber with saturated polymethylene main chain) with the following properties:

- excellent properties for protecting against attack from ozone and uv
- long term high temperature resistance (up to + 90° Celsius)
- long term high flexibility at low temperatures (down to – 40° Celsius)

Additionally EPDM materials for **Flexjoint EP** are generally very resistant to chemicals:

- alkali, acids and saline solutions
- water and steam
- polar solvents, such as alcohol and ketone

Low resistance to homopolar emollients and solvents (e.g. mineral oils, benzene, fuels and aromatic compounds, such as toluene).

Prolonged contact with these agents should be avoided.

Contact during the installation phase with the torch will not impair the material properties.

Flexjoint EP 20

Horizontal movement (max. **±30 mm**)
 Shear movement (max. **±20 mm**)
 Vertical movement (max. **±25 mm**)

Flexjoint EP 75

Horizontal movement (max. **±100 mm**)
 Shear movement (max. **± 75 mm**)
 Vertical movement (max. **± 85 mm**)

Flexjoint EP 40

Horizontal movement (max. **±60 mm**)
 Shear movement (max. **±40 mm**)
 Vertical movement (max. **±50 mm**)

Flexjoint EP 125

Horizontal movement (max. **±200 mm**)
 Shear movement (max. **±125 mm**)
 Vertical movement (max. **±170 mm**)

Characteristics	Units of measure	Specifications	Values	Tolerance
Hardness (H)	Sh. A3	ASTM D 2240	45	±5
Tensile strength (CR)	MPa	ASTM D 412 C	> 10	min.
Elongation at break (AR)	%	ASTM D 412 C	> 500	min.
Tear strength	N/mm (.)	ASTM D 624 B	> 10	min.
Fire rating		DIN EN 13501 class E		
Specific gravity	g/cm ³	DIN 53479	1,05	±0,03

