

EPDM White FDA 60° Shore A

There are two basic types of EP rubber available in today's market—EP and EPDM. EP is a copolymer of ethylene and propylene, while EPDM is a terpolymer combining ethylene, propylene and a diene monomer. EP uses a peroxide cure system. EPDM uses a sulphur cure system.

Filcoflex B.V.'s EPDM is an EPDM white FDA 60° Shore A is a rubber material sheet from rolls. EPDM is used for a number of purposes, to cut custom gaskets and to make flexible sleeves among other things.

The sheet is a roll material, the roll are 1200mm wide and have 10 meter length.

EPDM has a good solvent, acid and alkali resistance, and a good general chemical resistance. EPDM has a higher temperature resistance than most plastics (e.g. Poly Urethane) or natural rubbers.

Advantages

- Great solvent resistance. Good resistance to weather aging, oxygen, ozone, UV exposure, sunlight, water, steam and heat.
- EPDM has an outstanding chemical resistance to dilute acids, polar materials such as phosphate ester base hydraulic fluids, oxygenated solvents (acetone, methyl, ethyl ketone, and other ketones.), alcohol, animal and vegetable oils, alkalis and compression set.
- EPDM's dynamic and mechanical properties are, in general, between natural rubber and SBR.

Limitations

- Poor resistance to petroleum oils, fluids, or solvents because significant swelling would result.
- Poor resistance to aromatic hydrocarbons (e.g., benzol, toluol) and aliphatic hydrocarbons (e.g., kerosene, turpentine).



General Properties

Name:	EPDM White FDA	
Description Code:	EPDMw1 / EPDMw2 / EPDMw3 / EPDMw5	
Material:	Ethylene Propylene Diene Monomer rubber	
Color:	White	
Hardness:	60 ° Shore A (+/- 5° Shore tolerance)	
Tear Resistance:	25 N/mm	DIN 53507
Tensile Strength:	11,0 MPa	ASTM D412 C
Specific Weight:	1,16 g/cm ³	
Maximum Elongation:	550%	DIN 53504
Post Curing of sheet material:	Sulfur cured	
Operating Temperature:	-25 °C to 100 °C -13 °F to 212 °F	
Air Permeability:	0	
Type of Material:	Sheet on roll, 1200mm (+/- 20mm) x 10000mm	

Chemical Resistance

- Good temperature resistance
- Good ozone resistance
- Very good acid resistance
- Very good alkali resistance
- Good CIP resistance
- Good weather resistance
- Poor oil resistance
- Poor petrol resistance

Pressure Resistance for Flexible Connectors

0,34 Bar / 5.0 PSI For temperatures up to 90 °C / 195°F
Please see "Operating Pressure Guide" for further information.
we recommend using the shortest possible connector for applications where increased pressure and/or high temperature is expected. Please contact us for more information.



Weighing Applications

High volume weight and capacity weighing and dosing applications please see "weighing and dosing guide" for further information.

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Food Contact Compliancy

Filcoflex B.V. hereby declares that below mentioned list (1) of EPDM rubbers comply with the following regulations (2) for repetitive contact with food and foodstuffs.

EPDM rubbers (1):

- EPDM White FDA 1mm
- EPDM White FDA 2mm
- EPDM White FDA 3mm
- EPDM White FDA 5mm
- EPDM White FDA 6mm

List of regulations to which the product complies (2)

FDA 21 CFR of the United States of America:

- 177.2600

European Union:

- (EC) 1935/2004
- (EC) 2023-2006

Free of substances

None of the following chemicals is intentionally added to EPDM White FDA, and are therefore suspected to not be present in the material.

- Phthalates
- DEHP

Production Methods used

Joining / Bonding:

All seams are overlapped seams, the ends are made thinner before they are overlapped. The overlap seam has a thickness within that has a +1mm -0.5mm tolerance compared to the original material thickness.
*seams are grinded before they are glued for a better adhesion



Cutting :

- Stainless Steel knives
- Water Jet

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