



# FLEXAREN® 18000

## EVA-Copolymer

CAS Number: 24937 - 78 - 8

FLEXAREN® 18000 – high quality ethylene vinyl acetate copolymer with 18% content of vinyl acetate. Manufactured by high pressure tubular process

FLEXAREN® 18000 is more elastic than LDPE and compatible with a wide range of polymers. It can be processed with the same equipment.

Characteristics	Reference Value	Units	Test Method
MFI (@190°C; 2,16kg)	0.5	g/10min	ISO 1133
Density (@ 20°C)	0.939	g/cm <sup>3</sup>	DIN EM ISO 1183-1
VA content	18	wt. -%	FTIR
Vicat-softening-temperature	66	°C	ISO 306 Method A
Hardness Shore A	89	-	ISO 868
Hardness Shore D	36	-	ISO 868
Strength (@ 50% Elongation)	4.5	MPa	ISO 527 (PK 1 BA)
Tensile Strength (@ break)	26	MPa	ISO 527 (PK 1 BA)
Elongation (@ break)	>750	%	ISO 527 (PK 1 BA)
Tensile strength (@ film 50µm)	MD 37	MPa	ISO 527
Tensile strength (@ film 50µm)	TD 27	MPa	ISO 527
Processing recommendation	100-150	°C	-

The values listed are standard values

### Main Scope of Application

- **Stretch films**
- **Coextrusion films**
- **Cable compounds**

### Properties

- **Flexibility (especially at low temperatures)**
- **High transparency**
- **Good mechanical properties**



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### Food Legislation

All monomers used to produce commodities of FLEXAREN® are listed in regulation (EC)

10/2011.

### Safety and Environment

FLEXAREN® has not been classified as hazardous material in accordance with the Hazardous Material Act and does not require marking. FLEXAREN® can be reused, burned for power generation or disposed without risk. Therefore please take notice of the local valid rules.

For further safety-relevant information please refer to the Material Safety Data Sheet.

### Form of delivery, Packaging and Storage

FLEXAREN® is delivered as granular material of natural colouring, preferably packed in 25kg- PE-bags on lined pallets of 750kg each or as loose material in bulk trucks. Other types of shipping and packaging are possible.

FLEXAREN® shall be stored in its original packaging at room temperature in a dry place. It must not be stored together with amines. Avoid direct sun radiation or water contact.

Please do not hesitate to contact us for further details.

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The general points listed correspond to our current knowledge and have been elaborated to the best of our belief and under consideration of professional care. Herewith, we do not guarantee definite properties nor suitability for a particular application. It is the customer's duty to particularly check suitability of the product for the use intended.