



## Datasheet: PEBA Membranes Flat Sheet

PEBA (poly (ether block amide)) membranes have hydrophobic/organophilic characteristics, in which the organic constituent of the feed passes preferentially through the membrane.

### Membrane construction

Element sizes:	Flat sheet 297 x 210 mm (package of 3 pcs.) Flat sheet 210 x 68 mm (package of 12 pcs.)
Substrate material:	PET
Intermediate layer:	Type of PI
Top layer:	PEBA

### Limits of operation

Temperature:	70 °C (short-term 80°C)
Pressure:	5 bar
pH:	3-8
pre-filtration:	10 µ cartridge filter

### Handling, storage and cleaning

Handling:	Wear clean gloves in order to prevent contamination with fungi.
Storage before use:	Out of direct sunlight, room temperature, < 70% RH
Storage after use (short) :	In a solution of water and 10-15% IPA or water with 2500 ppm sodium metabisulfite
Storage after use (long):	In a solution of water with 0.7% benzalkonium
Cleaning:	The element can be cleaned by flushing with water to which a non-ionic detergent (10 ppm KOH) is added. Also enzymatic solutions dependent on the feed composition may be used. In case of food & additives processing contact us for alternatives.

### Sterilization options

Steam:	106-108 °C
Flushing:	With ethylene oxide or 100% ethanol

### Possible applications with hydrophobic/organophilic membranes

- Recovery or extraction of organics from natural feed like fruit juices, wine, beer, coco-nut oil, essential oils (carvon, limonene) and in combination with fermentation.
- Recovery of organics in biotech or biotech related food applications such as in natural feed like fruit juices, wine, beer, coco-nut oil, essential oils (carvon, limonene) and in combination with fermentation.
- Removal of ethyl alcohol (and other alcohols) from wine and beer.
- Upgrading reverse osmosis permeate in juice production.
- Combination with bioreactors in production of alcohols (ethanol, IPA, butanol), ABE (acetone, butanol, ethanol), aldehydes, flavor production as well as acid production.
- Removal of VOCs.