

## TPU- Aerator-/ & Membranes

### Characteristics

high mechanical strength, Puncture resistance, high abrasion resistance, stretchy and elastic, skin-friendly, temperature and weather resistant, good resistance to oils, greases, lubricants and many solvents. Free from solvents and plasticisers Media-tight, high water vapor permeability

### Scope of application

Aerator for the intermittent and continuous operation.  
Mounting on square tube 60 - 100 mm with 45 mm hole

### Brief Description

TPU- Tube aerator selectable in lengths 500/750/1000 mm (others on request). Diameter 65 or 90 mm with 45 mm centering ring and  $\frac{3}{4}$  " / 1" internal thread. Attachment via quick connector or tube double nipple to square tube.

Aerator	Ø	Length	Outgassing Length	Gassing Area	Boost	Weight
AFTt500	65 mm	530 mm	500 mm	0,09 m <sup>2</sup>	6,4 N	515 g
AFTt750	65 mm	780 mm	750 mm	0,13 m <sup>2</sup>	6,4 N	756 g
AFTt1000	65 mm	1030 mm	1000 mm	0,18 m <sup>2</sup>	6,4 N	1010 g

Aerator	Ø	Length	Outgassing Length	Gassing Area	Boost	Weight
AFTt509	90 mm	530 mm	500 mm	0,13 m <sup>2</sup>	8,5 N	785 g
AFTt759	90 mm	780 mm	750 mm	0,19 m <sup>2</sup>	8,5 N	1015 g
AFTt1009	90 mm	1030 mm	1000 mm	0,26 m <sup>2</sup>	8,5 N	1350 g

### Characteristics

TPU film membranes have been used successfully for several years. TPU combines all the advantages of silicone and rubber in one membrane: plasticizer-free, smooth surface, good chemical resistance, an opening pressure of 15 mbar (at 8 m<sup>3</sup> air / m aerator) and a high tear resistance characterize these membranes.

However, these film membranes should not be charged with twice the amount of air to avoid overstretching the slots.

<b>Membrane</b>	Thermoplastic polyurethane 0,5mm
<b>Slot length</b>	1,1 / 1,3 mm
<b>Perforation density</b>	15 or 43 Schlitze/cm <sup>2</sup>
<b>Opening Pressure (WD 0,5 mm)</b>	10-25 mbar
<b>Wastewater resistance</b>	Wastewater is not suitable for the EPDM
<b>Temperature resistance</b>	0 – +120° C
<b>Aerator Impingement</b>	Minimum: 2 Nm <sup>3</sup> / h x m aerator Standard: 5 Nm <sup>3</sup> / h x m aerator Maximum: 8 Nm <sup>3</sup> / h x m aerator

The aerators should be pressurized with no more than 8 m<sup>3</sup> air / m aerator

