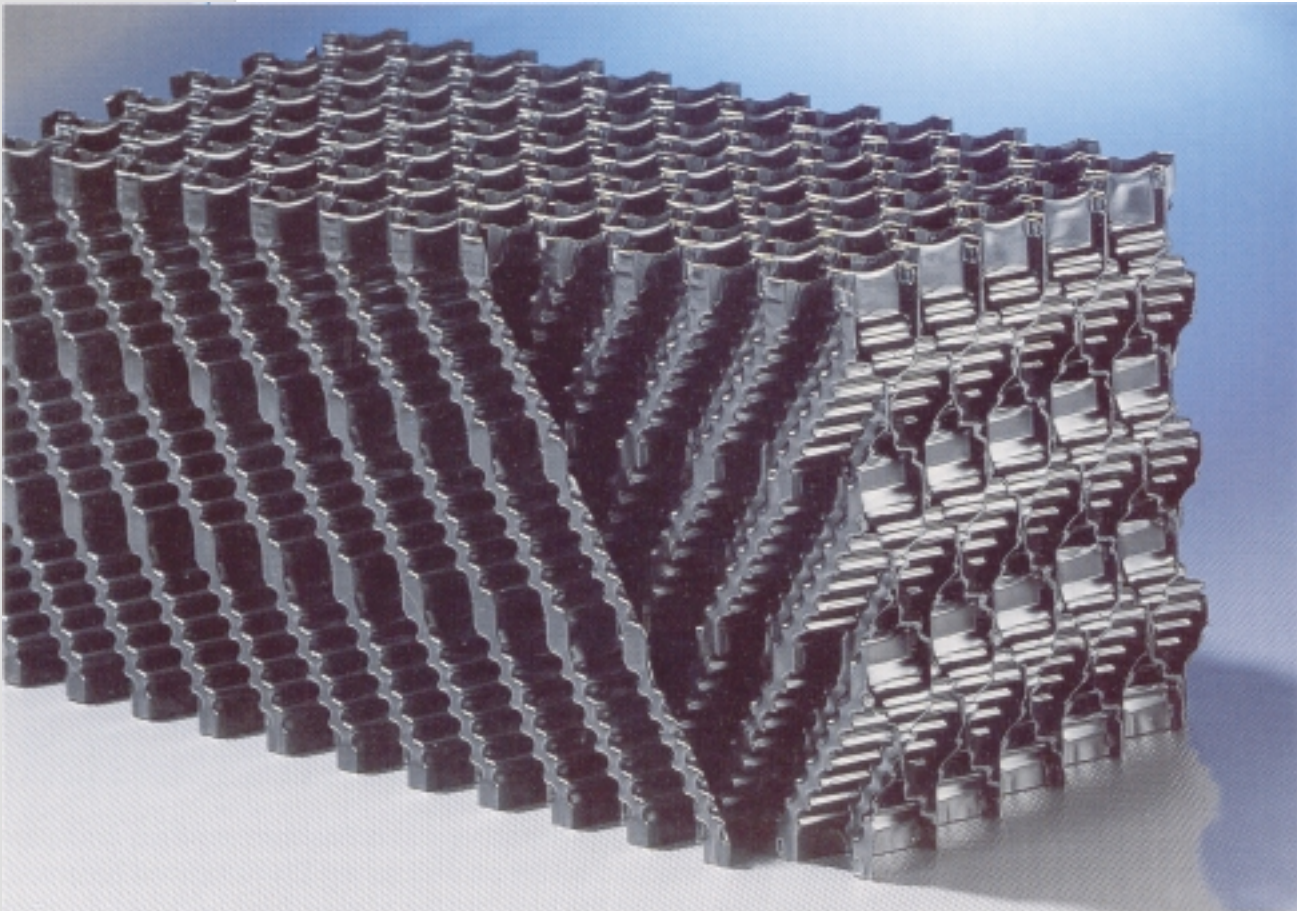


# 2 H-TKP-media

**made from extruded polypropylene foils**

for low and highly loaded fixed bed reactors



- ✓ very robust and long lasting
- ✓ high cost advantage and good environmental benefits compared with PVC
- ✓ high nitrification rate
- ✓ low energy consumption and low sludge production
- ✓ high security against blockages
- ✓ polypropylene (PP) with extreme chemical resistance and UV-stability
- ✓ welding is completely free of solvent based adhesives
- ✓ also prove use in bio rotors

**2H**  
Plastics

## 2 H-TKP-media

**ensure clarity in trickling filters and in submerged fixed bed (for example in biorotos, anerobic reactors, drinking water areas...)**

The Polypropylene-fixed beds of 2H are extremely chemical and temperature (-10 °C to + 100 °C) resistant.

They are UV- and biologically stable.

Type		TKP 312	TKP 319	TKP 327
surface of exchange (nominal)	m <sup>2</sup> /m <sup>3</sup>	~ 240	~ 150	~ 125
specific surface	sq.ft/cu.ft.	~ 73	~ 46	~ 38
free volume	%	> 95	> 95	> 95
flute size	mm	12	19	27
dimensions:				
length	mm	~ 400-2.400	~ 400-2.400	~ 400-2.400
height	mm	~ 300 / 600	~ 300 / 600	~ 300 / 600
width	mm	~ 300 / 600	~ 300 / 600	~ 300 / 600
thickness of foils	mm	~ 0.3 - 1	~ 0.3 - 1	~ 0.3 - 1
density	g/cm <sup>3</sup>	1.05	1.05	1.05
specific weight	kg/m <sup>3</sup>	20 - 40	20 - 40	20 - 40
max. service temperature	°C	- 10 / + 80*	- 10 / + 80*	- 10 / + 80*
material		Polypropylene	Polypropylene	Polypropylene

\* on request up to 100°C

The techniques for melt processing and online forming from granulate developed and patented by 2H as well as the 2H Kunststoff patented welding techniques ensure that the high quality of our fixed beds will be guaranteed. Foils are reinforced both at the outer edges as well as in the middle by approx. 50%. Thanks to this optimised foil thickness distribution, we achieve a unique stability at the top and bottom edge of the block. This guarantees an extraordinarily high resistance against erosion (pitting) . Foils can also be produced in a variety of different overall strength from approx. 0,3 - 1mm, to get a load-bearing capacity up to 30,000 kg/m<sup>2</sup> from our welded packing.

- extruded Polypropylene  
(not vacuum formed from flat sheets, which thins and weakens the foil)
- welded blocks  
(not glued)
- high temperature fills up to 100°C  
(PVC is only suitable for up to ~ 52°C continuously))



### **2H Plastics Australia**

P.O. Box 2634

Dandenong VIC 3175

Tel: 03 9893 7269 Fax: 03 9793 6050

for further info: [www.2haqua.com](http://www.2haqua.com)

e-mail: [bruno@2h.com.au](mailto:bruno@2h.com.au)