

Global Mold Inc.

## Global MPHR Biomedica

**High-Performance Random Dump  
Tower Packing Media**

**Made in the USA!  
Sold at Import Prices!**

**For Orders or Information  
Call or Send Email**

**208-687-4002**  
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## Global MPHR Biomedia

Product Application - Waste Water Treatment / Odor Control Biofilter / Biotrickling Filter

Global Mold, Inc. in conjunction with PRD TECH has developed a Multi-Pollutant, High Rate Biomedia (MPHR Biomedia). MPHR is designed as a suspended media for improving the performance of activated sludge wastewater treatment plants (WWTP). It offers all the benefits of IFAS systems, without any of the disadvantages of fixed media. Its unique design consists of a high impact resistant, high surface area plastic extruded media, which surrounds a high surface area open-cell foam/ceramic. This media has an applied bacterial population adhering to the plastic surface, which is very open to prevent clogging, with an anoxic, de-nitrifying zone within the open cell foam/ceramic piece. As with all of our products, Global MPHR designed media is uniquely engineered to provide maximum surface contact while insuring uniform liquid distribution throughout the media.

## Product Specifications

Description: Biofilter Suspended / Fixed Film media for Activated Sludge Wastewater treatment / Biofiltration for VOC / Odor / Trickling Filters

Place of Origin: Idaho, United States

Brand Name: Global Tower Packs

Model Number: MPHR 7"

Cage Surface Area: 30 ft<sup>2</sup>/ft<sup>3</sup>

Foam/Ceramic Surface Area: 275 ft<sup>2</sup>/ft<sup>3</sup>

Product Name: MPHR BIOFILTER MEDIA

Product Keyword: BIOFILTER MEDIA

### Dimensions

11.5" diameter x 3" height

Void fraction: 96%

Density (polypropylene): 1.8 lb/ft<sup>3</sup>

Number of pieces: 5/ft<sup>3</sup>



### Geometric Surface Area

Plastic cage 30 ft<sup>2</sup>/ft<sup>3</sup>

Foam/Ceramic 550 ft<sup>2</sup>/ft<sup>3</sup>

Performance characteristics of this media operating in activated sludge system are as follows:

Plant Loading (kg BOD/m<sup>3</sup>.day): 0.96

Media Volume (%): 20

BOD5 Influent: 200 mg/L Effluent: 2 mg/L

COD Influent: 320 mg/L Effluent: 18 mg/L

TKN Influent: 37 mg/L Effluent: 3 mg/L

Total P Influent: 8 mg/L Effluent: < 1 mg/L

Specific Removal Rate (kg NH<sub>3</sub>-N/1000 m<sup>2</sup>.day): 0.92

The MPHR Biomedia is capable of BOD, COD, TKN and Phosphorus removal simultaneously from the wastewater. It is fairly large and easy to contain within the activated sludge basin.