

Product Description

MBBR Media/Bio Filter Media

Bio filter media, used in Integrated Fixed-film Activated Sludge (IFAS) and moving bed biofilm reaction (MBBR) system. The wastewater goes through suspending media of MBBR reactor, forming biological membrane on the surface of media gradually. With the action of microbial on the biological membrane, wastewater is purified. MBBR media can move freely in the reactor with the mixing of the water. For the aerobic reactor, the aeration will make the media move; for the anaerobic reactor, mechanic mixing will make the media move. Our MBBR media is new-developed media, has better treatment effect compared with traditional media.



Technical Parameters

Model		PE02	PE03	PE04	PE05	PE06	PE08	PE10
Size	mm	φ11*7	φ10*7	φ16*10	φ25*10	φ25*10	φ5*10	φ25*4
Cavities	pcs	4	5	6	19	19	8	64
Protected surface area	m ² /m ³	>900	>1000	>800	>500	>500	>3500	>1200
Density	g/cm ³	0.96-0.98	0.96-0.98	0.96-0.98	0.96-0.98	1.02-1.05	1.02-1.05	0.96-0.98
Packing numbers	pcs/m ³	>830000	>850000	>260000	>97000	>97000	>2000000	>210000
Porosity	%	>85	>85	>85	>90	>90	>80	>85
Dosing ratio	%	15-68	15-70	15-67	15-65	15-65	15-70	15-65
Membrane-forming time	days	3--15	3--15	3--15	3--15	3--15	3--15	3--15
Nitrification efficiency	gNH ₄ -N/m ³ .d	400-1200	400-1200	400-1200	400-1200	400-1200	500-1400	500-1400
BOD ₅ oxidation efficiency	gBOD ₅ /m ³ .d	2000-10000	2000-10000	2000-10000	2000-10000	2000-10000	2500-15000	2500-20000
COD oxidation efficiency	gCOD/m ³ .d	2000-15000	2000-15000	2000-15000	2000-15000	2000-15000	2500-20000	2500-20000
Applicable temperature	°C	5-60	5-60	5-60	5-60	5-60	5-60	5-60
Service Life	year	>20	>20	>20	>20	>20	>20	>20

Main Features



- ◆ Geometric configuration based on hydrodynamics to strengthen the surface adhesive ability. it is polymer material, having high shock resistance.
- ◆ Large specific surface area, many adhesive biologicals. It not only provides the room for heterotrophic bacteria growing but also create the condition for autotrophic bacteria growing. Meanwhile, it is beneficial for the biologicals to denitrification and dephosphorization.
- ◆ No need of bracket, easy to fluidify, save energy consumption. The suitable specific weight makes the filler in suspended fluidization state, reducing the energy consumption and increasing the shock and cutting of bubbles. In the same condition, the aeration amount can be lowered by above 10%.

Products Display



Raw Material

Virgin HDPE (no recycle)



Packing

0.1cbm/bag

20gp=28-30cbm

40gp=60cbm

40hq=68-70cbm



