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Plastic Random Packing





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1 Plastic Random Packing

We had developed a full range of plastic random column packing:

- Plastic Pall Ring : GPPR
- Plastic Rosette Ring : GPRR
- Plastic Cascade Mini Ring : GPCMR
- Plastic Saddle Ring : GPSR
- Plastic Heilex Ring : GPHR

1.1 General Introduction

Our Plastic random packing (or plastic random column packing) has been used successfully as an inexpensive and efficient means to increase tower capacity and efficiency. There are numerous process advantages that can be realized by using plastic random column packing in many applications. The predominant reasons for using column packing is to reduce pressure drop through out the column, to increase capacity compared to trays at the same efficiency, and to reduce the liquid holdup in the column. Plastic random column packing are not as bulky as ceramic equivalents and therefore offer higher capacity and lower pressure drop.

Materials we can offer: PE, PP, PVC, UPVC, CPVC, PVDF.

Typical Application: Absorption, scrubbing, and stripping services.

1.2 Plastic Pall Ring (GPPR)

1.2.1 Sample Picture



1. GPPR

1.2.2 Benefits

GPPR packing is an economical and versatile. A industry standard with well-known performance characteristics.

- Good Capacity and Low Pressure Drop: Higher capacity and lower pressure drop than ceramic packing. Multiple sizes provide ability to optimize capacity and efficiency based on application requirements.
- Higher Liquid Hold-up and Residence Time: Relatively high liquid hold-up allows good absorption efficiency with slow chemical reaction.
- Versatile Standard Packing: Lower sensitivity to liquid and vapor distribution quality allows use with conventional liquid distributors.
- High Mechanical Strength: Ring and spoke construction provides high mechanical strength, which allows use in deep beds.

1.2.3 Application

Absorption, scrubbing, and stripping services. Versatile alternative to metal Pall rings

1.2.4 Technical Parameter

Type	Sizes mm	Surface m ² /m ³	Free Vol. %	Number m ³	Weight kg/ m ³
Dia16	16*16*1	260	91	235000	141
Dia25	25*25*1.2	210	90	54600	82
Dia38	38*38*1.4	140	89	13500	54
Dia50	50*50*1.5	100	90	6300	51
Dia76	76*76*2.6	73	92	1930	58

1. Technical Parameter of GPPR

1.3 Plastic Rosette Ring (GPRR)

1.3.1 Sample Picture



2. GPRR

1.3.2 Benefits

GPRR packing is an economical and versatile industry standard with well-known performance characteristics.

1.3.3 Application

Absorption, scrubbing, and stripping services.

1.3.4 Technical Parameter

Type	Sizes mm	Surface m ² /m ³	Free Vol. %	Number m ³	Weight kg/ m ³
Dia25	25*9*(1.5*2) (5 ring)	195	82	170000	90
Dia47	47*19*(3*3) (9 ring)	185	88	32500	111
Dia51	51*19*(3*3) (9 ring)	180	98	23500	103
Dia59	59*19*(3*3) (12 ring)	150	92	17500	72
Dia73	73*27.5*(3*4) (12 ring)	127	89	8000	80
Dia95	95*37*(3*6) (18 ring)	94	90	3900	78
Dia145	145*37(3*6) (20 ring)	118	95	1100	48

2. Technical Parameter of GPRR

1.4 Plastic Cascade Mini Ring (GPCMR)

1.4.1 Sample Picture



3. GPCMR

1.4.2 Benefits

GPCMR achieves:

- **High Capacity and Low Pressure Drop:** Low aspect ratio increases capacity and reduces pressure drop. The preferred vertical orientation of the packing axes allows free gas flow through the packed bed; Low pressure drop and high capacity allows smaller column diameter and blower sizes in new installations; Multiple sizes provide ability to optimize capacity and efficiency based on application requirements.
- **Fouling Resistant:** Open structure and preferred vertical axis orientation inhibits fouling by allowing solids to be more easily flushed through the bed by the liquid.
- **High Mechanical Strength:** Ring and spoke construction and preferred vertical orientation provide high mechanical strength, which allows use in deep beds.

1.4.3 Application

Absorption and stripping services, many environmental applications.

1.4.4 Technical Parameter

Type	Sizes (mm)	number n/m ³	Bulk density kg/m ³	Specific surface area m ² /m ³	Free Vol. %	Dry packing factorm-1
Dia16	16*8.9*1.1	299136	135.6	370	85	602.6
Dia25	25*12.5*1.4	81500	97.8	228	90	312.8
Dia38	38*19*1	27200	57.5	132.5	91	175.8
Dia50	50*25*1.5	10740	54.8	114.2	92.7	143.1
Dia76	76*37*3	3420	68.4	90	92.9	112.3

3. Technical Parameter of GPCMR

1.5 Plastic Saddle Ring (GPSR)

1.5.1 Sample Picture



4. GPSR

1.5.2 Benefits

GPSR saddles are a versatile and economical industry standard with well-known performance characteristics:

- Good Capacity and Low Pressure Drop: Higher capacity and lower pressure drop than ceramic saddles; multiple sizes provide ability to optimize capacity and efficiency based on application requirements.
- Higher Liquid Hold-up and Residence Time: Relatively high liquid hold-up allows good absorption efficiency with slow chemical reaction..
- Versatile Standard Packing: Lower sensitivity to liquid and vapor distribution quality allows use with conventional liquid distributors.

1.5.3 Application

Absorption, scrubbing, stripping services, Pulp and paper service, such as bleach plant absorbers, Versatile alternative to ceramic saddles.

1.5.4 Technical Parameter

Type	Sizes (mm)	Specific surface area m ² /m ³	Free Vol. %	no/m ³	Package density kg/m ³	F factor m-1
Dia25	25×12.5×1.2	288	84.7	97680	102	473
Dia38	38×19×1.2	265	95	25200	63	405
Dia50	50×25×1.5	250	96	9400	75.2	332
Dia76	76×38×2.6	200	97	3700	59.2	289

4. Technical Parameter of GPCMR

1.6 Plastic Heilex Ring (GPHR)

1.6.1 Sample Picture



5. GPHR

1.6.2 Benefits

high performance random packing provides lower possible pressure drop and high efficiency.

1.6.3 Application

Absorption and stripping services.

1.6.4 Technical Parameter

Type	Sizes mm	Surface m ² /m ³	Free Vol. %	Number m ³	Weight kg/ m ³
Dia50	50*56	110	94	8000	64
Dia76	76*76	92	96	3420	56
Dia100	100*100	76	95	1850	51

5.Technical Parameter of GPHR



2 Benefits

2.1 Available in all sizes

Our Plastic Random Packing is available in standard sizes. Other sizes are available upon your specific request.

2.2 Economical packaging

In order to provide you the most convenient and economical packaging in terms of manual handling charge on site, We will propose you the advice on the best way of packaging.

We now offer:

- One cubic foot bags, 40~50bags per pallet.
- One cubic foot paper boxes.
- One cubic meter supersack.
- 55 Gallon steel drums, four drums per pallet.
- Other packagings are available upon your request.

2.3 Quick Shipment on Short Notice

We preserves high stock levels on standard items, your request will be immediately handled by our IT department, and the order system will automatically transfer the order to our relative staff by email and SMS. You will receive our confirmation within 24 hours. Our system will work literally 24 hours a day, seven days a week. We also has a team of sophisticated shipping staff who used to work in the forwarding company and will guarantee you professional delivery schedule.

2.4 Technical Support

We had been in this industry for more than 25 years. We have maintained a group of competent ceramic material experts. If our standard products don't meet your needs, Our technical support will work with your company to develop the products which meet your specific application requirements.