

Plastic Random Packing

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Chempack plastic random packing is created with polyethylene(PE), polypropylene(PP), reinforced polypropylene(RPP), polyvinyl chloride(PVC), chlorinated polyvinyl chloride(CPVC) and polyvinylidene fluoride(PVDF). It is light, energy saving, reusable, easy to handle, and features great resistance to chemical corrosion, low pressure drop, low operating cost, large void space and fluid capacity.

This type of random packing works over a temperature range of 60 to 150°C, and is widely used in stripping, absorbing and washing applications in the towers. As our plastic random column packing performs better than ceramic random packing and is more cost effective than metal random column packing. Therefore, it is highly sought after in the chemical, petrochemical, alkali chloride, coal gas and environmental protection industries.

Technical Data for Plastic Materials

Item/Material	PE	PP	RPP	PVC	CPVC	PVDF
Density,g/cm ³	0.94-0.96	0.89-0.91	0.92-0.94	1.32-1.44	1.50-1.54	1.75-1.78
Working temperature,°C	≤90	≤100	≤120	≤60	≤90	≤150
Chemical resistance	Good corrosion resistance					
Compressive strength, N/mm	≥6.0	≥6.5	≥7.0	≥6.0	≥8.0	≥10.0

Our plastic random packing includes

Plastic Pall Ring, Plastic Saddles, Plastic Super Saddles, Plastic Tollerette Rosette Ring, Plastic Super Saddles, Plastic Cascade Mini Ring, Plastic Heilex Ring, Plastic Conjugate Ring, Polyhedral Hollow Ball, etc.

1. Plastic Pall Ring

Product Name	Size mm	Diameter*Height*Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/m ³	Packing Factor m ⁻¹
Plastic Pall ring	Φ25	25×25×1.2	213	91	85	48300	285
	Φ38	38×38×1.4	151	91	82	15800	200
	Φ50	50×50×1.5	100	92	60	6300	130
	Φ76	76×76×2.6	72	92	62	1930	92

2. Plastic Saddle

Product Name	Size mm	Diameter*Height*Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/m ³	Packing Factor m ⁻¹
Plastic Intalox Saddle Ring	Φ25	25×13×1.2	288	85	102	97680	467
	Φ38	38×19×1.2	265	95	91	25200	309
	Φ50	50×25×1.5	250	96	75	9400	282
	Φ76	76×38×3.0	200	97	59	3700	220

3. Plastic Tollerette Rosette Ring

Product Name	Size mm	Diameter*Height*Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/m ³	Packing Factor m ⁻¹
Teller Rosette Ring	Φ25	25×9×1.5×2	269	82	128	175000	488
	Φ47	47×19×3×3	185	88	111	32500	271
	Φ51	51×19×3×3	180	89	103	25000	255
	Φ59	59×19×3×3	150	92	102	17500	213
	Φ73	73×28×3×4	127	89	102	8000	180
	Φ95	95×37×3×6	94	90	88	3600	129
	Φ145	145×48×3×6	65	95	47	1100	76

4. Plastic Cascade-mini Ring

Product Name	Size mm	Diameter*Height*Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/m ³	Packing Factor m ⁻¹
Cascade Mini Ring	Φ25	25×13×1.2	228	90	98	81500	313
	Φ38	38×19×1.4	133	93	58	27200	176
	Φ50	50×25×1.5	114	94	55	10740	143
	Φ76	76×37×3.0	90	93	698	3420	112

5. Plastic Conjugate Ring

Product Name	Size mm	Diameter*Height*Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/m ³	Packing Factor m ⁻¹
Plastic Conjugate Ring	Φ25-I	25×25×1.0	185	95	96	74000	216
	Φ38-I	40×34×1.5	130	93	61	18650	162
	Φ38-II	37×37×1.5	142	91	80	16320	188
	Φ50-II	50×40×1.5	104	80	66	9500	164
	Φ76	76×76×2.5	81	95	81	3980	94

6. Plastic Heilex Ring

Product Name	Size mm	Diameter*Height*Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/m ³	Packing Factor m ⁻¹
Plastic Heilex Ring	Φ50	50×50×1.5	107	94	61	8200	128
	Φ76	76×76×1.8	75	95	56	3180	87
	Φ100	100×100×2.0	55	96	48	1850	62

7. Plastic Polyhedral Ball

Product Name	Size mm	Diameter*Height*Thickness mm	Surface Area m ² /m ³	Void Space %	Bulk Density kg/m ³	Number/m ³	Packing Factor m ⁻¹
Polyhedral Ball	Φ25	25×1.0	460	90	96	65100	631
	Φ38	38×1.2	325	91	83	28500	355
	Φ50	50×1.5	236	91	76	11500	313

8. Plastic Polyhedral Hollow Ball

Product Name	Specification mm	Surface Area (m ² /m ³)	Void Space %	Bulk Density kg/m ³	Number/m ³
Polyhedral Hollow Ball	ø 25*1.0	200	40	125	41500
	ø 38*1.2	150	40	121	22000
	ø 50*1.5	120	40	73	10480

Note: The bulk density of those products given here is based on PP material.

As a plastic random packing manufacturer in China, we at Chempack have specialized in the production of chemical products for over 40 years. Hence, we can provide a wide range of quality products, including reforming catalyst, hydrotreating catalyst, adsorbent, molecular sieve, and more. Due to our management in conformity with international standards, we are ISO9001:2000 certified. To ensure our customers have the best experience in their purchase, we offer superior service, like consultation and customization services. OEM service and free samples are also available. We welcome global buyers to contact us and try our products. Our staff is ready to serving you.

FEED BACK FORM

E-mail:

Message:

Product Name:

Your Name:

Company:

FAX / TEL:

MSN/SKYPE

Address: