

HDPE WATER & CHEMICAL TANK



CLOSED TOP TANKS



OPENED TOP TANKS

PE ROTOMOULDED TANKS

Ideal for use as water or chemical tanks due to inert nature of PE (Polyethylene) to most chemicals. However due to the basic origin of its resins, it is unsuitable for hydrocarbon based solvents. IBCs are excellent transportation tanks and are blow moulded from PE material.

- Product Features & Advantages
- Range of Tanks and Dimensions
- Cylindrical Closed Top Tanks
- Cylindrical Open Top Tanks
- PE Resin Specifications
- General Chemical Resistance Chart
- Fittings and Accessories Available

All tanks supplied by Polyfluo Asia Pte Ltd are either rotomoulded or blow moulded.

PE rotomoulded or blow moulded tanks are one piece seamless tanks produced from polyethylene using rotational moulding or blow moulding process which offer superior quality as they are corrosion resistant, flexible and will not break or shatter under normal expansion and contraction. PE tanks are competitively priced and suitable as storage and transportation tanks for a wide range of chemicals and can be used by water and wastewater industries and any industry that require storage or movement of chemicals.

Polyethylene resins used to manufacture PE tanks is an ethylene octane copolymer specifically designed for applications requiring excellent environmental stress crack resistance and impact strength combined with low warpage. It is fully head and UV stabilized resulting in good colour retention and long life expectancy. The resins comply with U.S. FDA 21 CFR 177.1520©3.1

PRODUCT FEATURES AND ADVANTAGES



STANDARDS

Designed to ASTM D 1998-06.



STRONG, SEAMLESS AND LEAKPROOF

One-piece seamless construction guarantees leakproof tanks that are strong and rugged.



LIGHTWEIGHT FOR EASY HANDLING

Lightweight and rugged properties facilitate easy and fast handling, transportation and installation.



EXTENSIVE RANGE

Available from 100 litres to 45,000 litres.



QUALITY ASSURANCE

Consistent quality achieved through systematic product and material testing programme.

CUSTOMIZATION

Can be customized to meet customer requirements.

COLOUR

Available in black or natural (translucent) colour only.



MAINTENANCE FREE

No painting or corrosion-protection coating required.



CHEMICAL AND UV RESISTANT

Polyethylene is UV resistant and chemically inert against a wide range of chemicals.

SMALL SIZE TANKS						
MODEL	CAPACITY		DIMENSIONS			
	Gallons	Litres	Top Diameter/ Bottom Diameter		Overall Height	
			mm	inches	mm	inches
R10CC	200	1.000	1.220	48	1.290	51
R11CD	250	1.125	1.220	54	1.270	51
R12CC	260	1.200	1.220	48	1.490	59
R15CC	330	1.500	1.220	48	1.790	70
R18CC	400	1.800	1.300	51	1.760	69
MEDIUM SIZE TANKS						
MODEL	CAPACITY		DIMENSIONS			
	Gallons	Litres	Top Diameter/ Bottom Diameter		Overall Height	
			mm	inches	mm	inches
R27CC	600	2,700	1,500	59	2,030	80
R40CS-(S)	890	4,005	2,500	98	1,000	39
R40CC	1,000	4,500	1,750	69	2,225	88
R55CS	1,200	5,400	2,010	79	2,210	87
R68CS	1,500	6,705	2,400	94	1,960	77
R68CS-(S)	1,500	6,800	1,600	63	3,917	154
R72CS	1,800	8,100	2,080	82	2,920	115
R90CS	2,000	9,000	2,580	102	2,300	91
LARGE SIZE TANKS						
MODEL	CAPACITY		DIMENSIONS			
	Gallons	Litres	Top Diameter/ Bottom Diameter		Overall Height	
			mm	inches	mm	inches
R135CS-(2)	3,000	13,500	3,060	120	2,550	100
R135CS-(3)	3,000	13,500	2,500	98	3,200	126
R150CS	3,300	14,850	2,400	94	3,800	150
R180CS	4,000	18,000	3,060	120	3,300	130
R230CS-(2)	5,000	22,500	3,060	120	3,800	150
R230CS-(3)	5,000	22,500	3,700	146	2,730	107
R270CS	6,000	27,000	3,060	120	4,500	177
R300CS	6,700	30,150	3,000	118	4,780	188
R320CS	7,000	32,000	3,200	126	4,580	180
R360CS	8,000	36,000	3,300	130	5,050	199
R450CS	10,000	45,000	3,300	130	6,300	248

Model: Series/Body Type/Opening Type

CD = Non Stackable, Fully Detachable Dome Cover

CC = Non Stackable, Manhole At Centre

CS = Non Stackable, Manhole At Side

PE RESIN SPECIFICATIONS

Physical Properties	Test Method	Values	
Resin properties⁽¹⁾			
Melt Index, g/10 min	ISO 1133	4	
Density, g/cc	ISO 1183	0.935	
Melting Point, °C	DSC	125	
Vicat Softening, °C	ISO 306 (Method A/120)	118	
Crystallisation Point, °C	DSC	105	
Deflection Temperature Under Load	ISO 75	75	
Mechanical Properties⁽¹⁾		Values ⁽²⁾	Values ⁽³⁾
Hardness Shore D	ISO R868	57	-
Tensile Yield, MPa	ISO R527	17	17
Ultimate Tensile, MPa	ISO R527	24.7	21.8
Ultimate Elongation, %	ISO R527	800	700
Flexural Modulus, 1% Secant, MPa	ISO 178	640	-
Tear Resistance, MPa	DIN 53515	145	140
ESCR 50 oC, 100% AntaroX, h 10% AntaroX, h	ASTM D-1693	>1000	-
		-	400
Falling Dart Impact, 23 °C, J/mm -20 °C, J/mm	ISO 6603/2	17	17
		23	-

(1) Typical values, not to be construed as specifications. Users should confirm results with their own tests.

(2) Compression moulded samples.

(3) Rotomolded plates of 3-3 mm thickness

GENERAL CHEMICAL RESISTANCE CHART

Chemical Class	Polyethylene Resins
Acids, Inorganic	-
Weak	E
Strong	E
Strong Oxidising	G
Acids, Inorganic	-
Weak	E
Strong	E
Alcohols	E
Aldehydes	E
Amines	-
Aliphatic	E
Aromatic	E
Bases	E
Beverages	E
Condiments	E
Esters	G
Foodstuffs	E
Glycols	-
Polyglycols	E
Polyglycols ethers	E
Hydrocarbons	-
Aliphatic	N
Aromatic	N
Chlorinated	N
Insecticides	G
Ketones	G
Oils	-
Essential Oils	F
Vegetable Oils	E
Pharmaceuticals	E
Salts	E

E - Excellent

G - Good

F - Fair

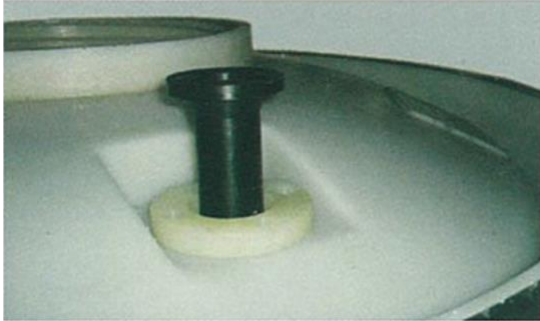
N - Not Recommended

This table should be used as a guide only.

Source of Information : Dow Plastics

OPTIONAL FITTINGS AND ACCESSORIES

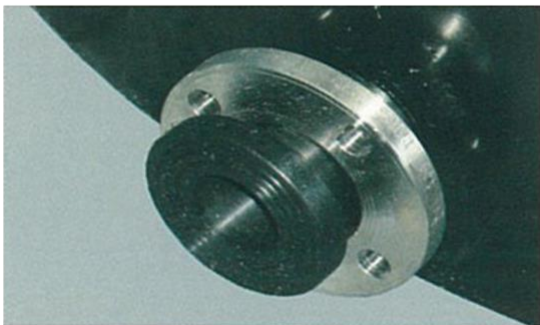
TYPES OF FLANGES



PP Flange



HDPE Flat Faced Flange



Stainless Steel Flange

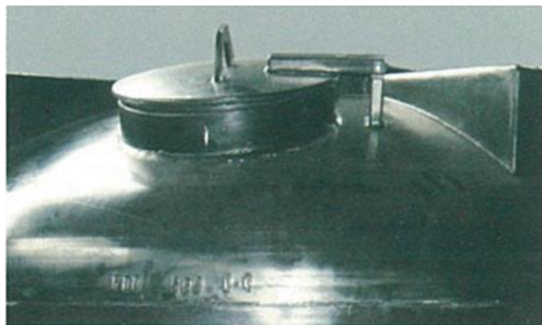
MANHOLES



Screw Type

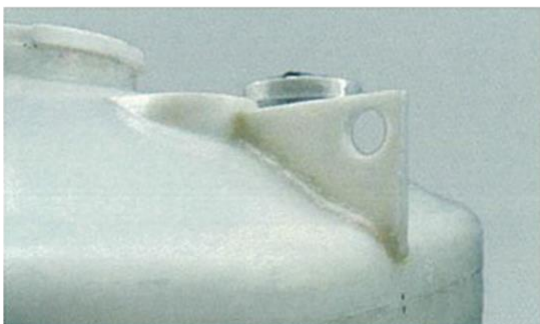


Fume Proof Type

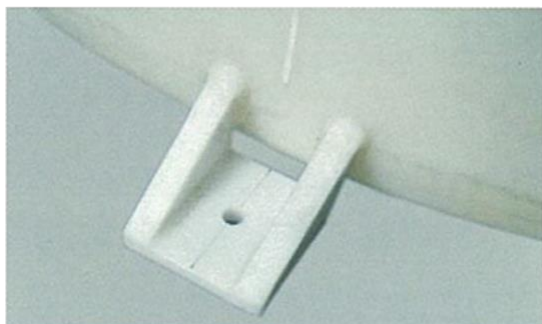


Hinged Type

LUG



Lifting Lug



Hold Down Lug

LEVEL INDICATOR



Reverse Level Indicator



Direct Level Indicator