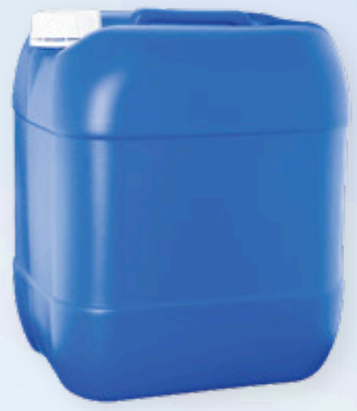
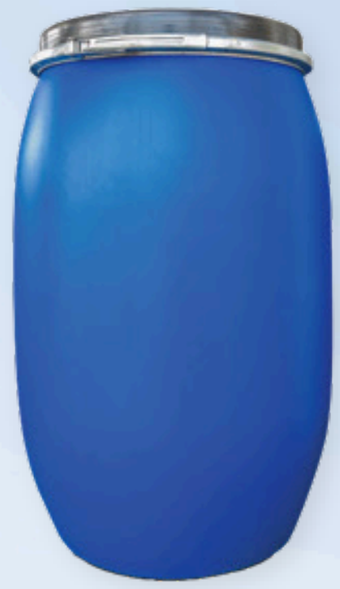
InnoPlus by GC

# Large Blow Molding

## Rigid Packaging

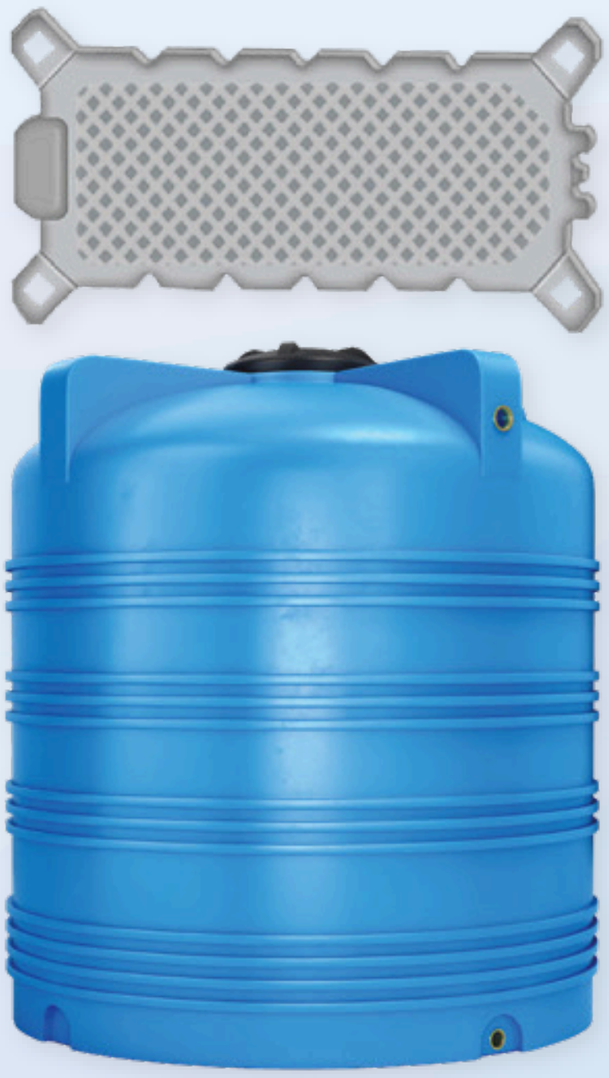
< 200L Drum | IBC | ≥ 200L Drum | Floating Solar Pontoon

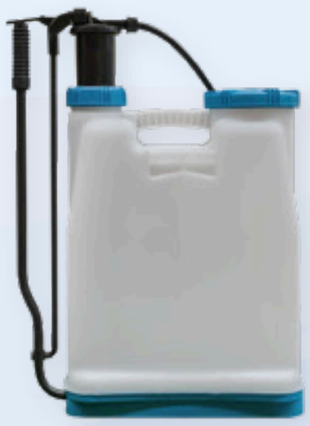


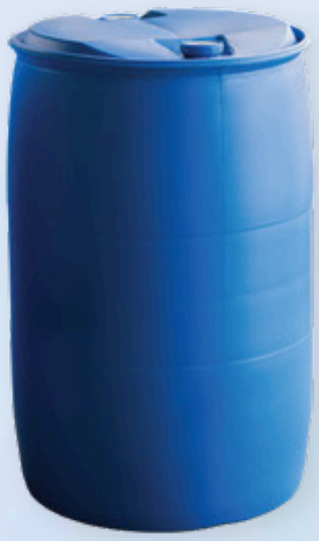


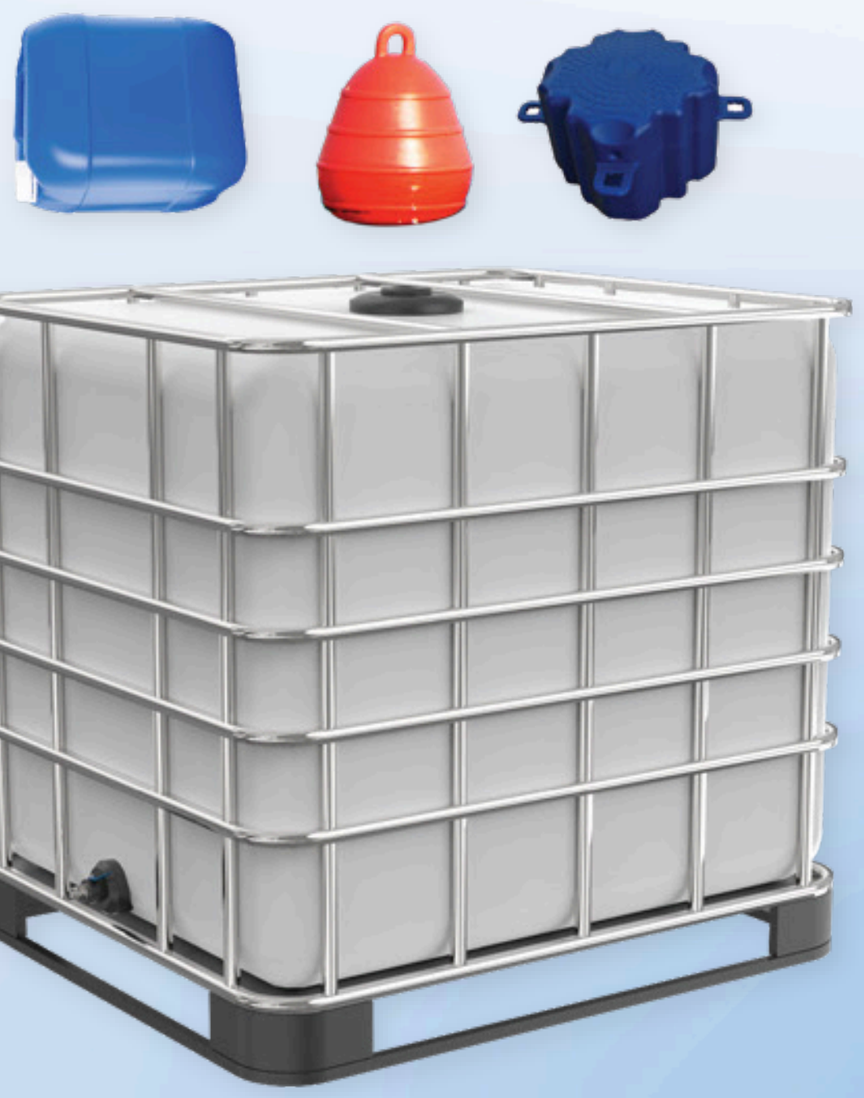
| InnoPlus: HDPE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Properties** | **Test Method** | **Unit** | **Large Blow Molding** | | | | | |
| | | | **HD7200B** | **HD7500B** | **HD7800B** | **HD7808B** | **HD8200B** | **HD9100B** | **HD8225B** |
| MFR (190 °C, 2.16 kg) | ASTM D1238 | g/10 min | 0.05 | 0.05 | 0.04 | 0.04 | 0.03 | 0.01 | 0.03 |
| MFR (190 °C, 21.6 kg) | ASTM D1238 | g/10 min | 8.5 | 8 | 6 | 6 | 4 | 2.5 | 4 |
| Density | ASTM D1505 | g/cm³ | 0.956 | 0.954 | 0.950 | 0.950 | 0.955 | 0.952 | 0.955 |
| Melting Temperature | ASTM D3418 | °C | 134 | 134 | 130 | 130 | 134 | 134 | 134 |
| Tensile Strength at Yield | ASTM D638 | kg/cm² | 300 | 260 | 300 | 300 | 300 | 250 | 300 |
| Tensile Strength at Break | ASTM D638 | kg/cm² | 350 | 380 | 370 | 370 | 370 | 400 | 370 |
| Elongation at Break | ASTM D638 | % | 800 | 800 | 850 | 850 | 850 | 720 | 850 |
| Flexural Modulus | ASTM D790 | kg/cm² | 12,000 | 10,000 | 12,000 | 12,000 | 12,000 | 10,000 | 12,000 |
| Notched Izod Impact Strength | ASTM D256 | kg.cm/cm | 25 (NB*) | 29(NB*) | 72 (NB*) | 72 (NB*) | 64 (NB*) | 85 (NB*) | 64(NB*) |
| Durometer Hardness | ASTM D2240 | shore D | 63 | 63 | 61 | 61 | 64 | 62 | 64 |
| Vicat Softening Point | ASTM D1525 | °C | 124 | 124 | 125 | 125 | 128 | 126 | 128 |
| ESCR; 25% Igepal, $F_{50}$ | ASTM D1693 | Hours | > 1,000 | >1,000 | > 1,000 | > 1,000 | > 1,000 | > 1,000 | > 1,000 |
| **UV Stabilizer** | | | No | No | No | Yes | No | No | Yes |
| **End Product** | | | <200L Drum | | | IBC | ≥ 200L Drum | | Floating Solar Pontoon |
| **Product Highlight** | | | Excellent Processability, Extremely High Stacking Performance, High Impact Strength recommended for Large Blow Molding Products e.g. Drums, Jerry cans, Water Tanks, etc. | | Excellent Processability, Extremely High Impact Strength and Good Stacking Performance recommended for Large Blow Molding Products e.g. Drums, Jerry cans, Pontoon and heavy duty applications, etc. | UV Added Grade with Excellent Processability, Extremely High Impact Strength and Good Stacking Performance, suitable for Large Blow Molding Product e.g. Intermediate Bulk Containers (IBC), Drums, Jerry cans, Pontoons and Outdoor Applications, etc. | Excellent Processability, Extremely High Impact Strength and Stacking Performance recommended for Large Blow Molding Products e.g. 200 L Drums, Jerry cans, Pontoon and heavy duty applications, etc. | | UV stabilizer added for providing extremely outstanding UV resistance specially designed for long-term durability service life outdoor applications |

Note: *C = Complete Break *P = Partial Break *NB = Non Break









# Floating Solar Pontoon

## Energy Saving Solution

Floating Solar Pontoon

| InnoPlus: HDPE | | | | |
|---|---|---|---|---|
| **Properties** | **Test Method** | **Unit** | **Floating Solar Pontoon** | |
| | | | **HD7800B** | **HD8200B** |
| MFR (190 °C, 2.16 kg) | ASTM D1238 | g/10 min | 0.04 | 0.03 |
| MFR (190 °C, 21.6 kg) | ASTM D1238 | g/10 min | 6 | 4 |
| Density | ASTM D1505 | g/cm³ | 0.950 | 0.955 |
| Melting Temperature | ASTM D3418 | °C | 130 | 134 |
| Tensile Strength at Yield | ASTM D638 | kg/cm² | 300 | 300 |
| Tensile Strength at Break | ASTM D638 | kg/cm² | 370 | 370 |
| Elongation at Break | ASTM D638 | % | 850 | 850 |
| Flexural Modulus | ASTM D790 | kg/cm² | 12,000 | 12,000 |
| Notched Izod Impact Strength | ASTM D256 | kg.cm/cm | 72 (NB*) | 64 (NB*) |
| Durometer Hardness | ASTM D2240 | shore D | 61 | 64 |
| Vicat Softening Point | ASTM D1525 | °C | 125 | 128 |
| ESCR; 25% Igepal, $F_{50}$ | ASTM D1693 | Hours | >1,000 | >1,000 |
| **End Product** | | | Floating Solar Pontoon | |
| **Product Highlight** | | | Large Blow molding drum, Jerry can, Floating Solar Pontoon, Easy processability and High Impact Strength with Excellent ESCR Suitable for Heavy Duty Applications | |

Note: *C = Complete Break *P = Partial Break *NB = Non Break

| InnoPlus: HDPE | | | |
|---|---|---|---|
| **Properties** | **Test Method** | **Unit** | **Floating Solar Pontoon** |
| | | | **HD8225B (Experimental grade)** |
| **Physical Properties** | | | |
| Melt Flow Rate (190 °C, 2.16 kg) | ASTM D1238 | g/10 min | 0.03 |
| Melt Flow Rate (190 °C, 21.6 kg) | ASTM D1238 | g/10 min | 4 |
| Density | ASTM D1505 | g/cm³ | 0.955 |
| Vicat softening point | ASTM D1525 | °C | 128 |
| Melting Temperature | ASTM D3418 | °C | 134 |
| **Mechanical Properties** | | | |
| Tensile Strength at Yield | ASTM D638 | kg/cm² | 300 |
| Tensile Strength at Break | ASTM D638 | kg/cm² | 370 |
| Elongation at Break | ASTM D638 | % | 850 |
| Stiffness | ASTM D747 | kg/cm² | 9,000 |
| Flexural Modulus | ASTM D790 | kg/cm² | 12,000 |
| Notched Izod Impact Strength | ASTM D256 | kg.cm/cm | 64 (NB)* |
| Durometer Hardness | ASTM D2240 | Shore D | 64 |
| ESCR, $F_{50}$ (Condition B, 25% Igepal) | ASTM D1693 | hrs | >1,000 |
| **Resistant** | | | Yes |
| **End Product** | | | Floating Solar Pontoon |
| **Product Highlight** | | | UV added for Floating Solar Pontoon, Large blow molding water tank, Excellent UV Dispersive Formulation Suitable with Excellent ESCR for Long-life Applications |

Note: *C = Complete Break *P = Partial Break *NB = Non Break

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. All above values are typical values, not to be construed as specification.

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