

Blow Moulding

HDPE is one of the versatile Polymeric material and most commonly used in Blow Moulding processing technique. Selection of the appropriate Plastics resin for different blow moulding applications may be a challenge. Cost, weight, flexibility, strength, and other relevant factors are taken into considerations while selecting material for the product. High Density Polyethylene (HDPE) resins are available with different range of melt indexes, densities and additive packages for producing bottles/containers through blow molding process.

IndianOil is one of the largest Polymer manufacturer in the country and produces high density polyethylene (HDPE) and polypropylene random copolymer grades for blow moulding applications under brand name *PROPEL*. These materials can be used to produce bottles or bottle-like containers in a variety of applications, including but not limited to the following:

- Chemical Packaging & Household containers
- Cosmetics & Shampoo Bottles
- Lubricants and Oils
- Baby feeder bottles
- Automobile Components

IndianOil's bimodal HDPE resins are best in the class with optimum balance of top load and impact strength properties which makes them widely acceptable in a variety of products. In addition to HDPE, PP – RCP blow moulding grades from IndianOil has excellent transparency and high impact strength which makes them widely acceptable. All *PROPEL* blow moulding grades comply with relevant food and safety norms of India.

IndianOil produces following HDPE & PP-RCP grades for extrusion and injection blow moulding process:

Grade	Application	MFI	Density
HDPE 010DB50	Containers / bottles upto 5 Litre for packaging of Chemicals, Pesticides, Toiletries etc. High ESCR Grade.	1.0	0.950
HDPE 012DB54	Containers / bottles upto 5 Litre for packaging of Lube oil, Edible oil, FMCG products, and foodstuffs.	1.2	0.954
HDPE 012DB60	Containers upto 20 Litre for packaging of Edible oil, Dalda, etc.	1.2	0.960
HDPE 003DB52	Containers / Bottles upto 100 Litre capacity. Blow Moulded water tanks.	0.3	0.952
PP RCP 2020EC	Transparent bottles for liquids & flavoured milk and dairy products.	1.9	0.900

