

# B6003



## High Density Polyethylene

## Blow Molding

### Product Description:

HDPE B6003 is a natural colored grade produced with the latest Mitsui CX slurry polymerization

Technology exhibiting following features:

- ✓ Very Good Processing Properties
- ✓ High Rigidity
- ✓ Excellent Mechanical properties

HDPE B6003 is recommended for following applications:

- ✓ General purpose containers up to 20 L
- ✓ Lubricant oil containers (up to 15 L)
- ✓ Edible Oil containers (up to 15 L)
- ✓ Bottles for food, milk packaging

### Typical Properties:

Sr. No.	Properties	Test Method	Units	Values*
<b>Physical Properties</b>				
1	Melt Flow Index (190°C & 2.16 kg)	ASTM D1238	g / 10 min	0.35
2	Density (at 23 °C)	ASTM D1505	gm/cm <sup>3</sup>	0.962
<b>Mechanical Properties</b>				
3	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	32
4	Elongation @ Break (50mm / min)	ASTM D638	%	>500
5	Notched Izod Impact Strength (at 23 °C)	ASTM D256A	J/m	350
6	Flexural Modulus	ASTM D790A	MPa	1300
7	Hardness	ASTM D2240	Shore D	68
<b>Thermal Properties</b>				
8	Vicat Softening Point	ASTM D1525	°C	129
9	Heat Deflection Temperature	ASTM D648	°C	80
** Mechanical Properties tested on Compression Molded Specimen.				
* Typical Values and not to be taken as specification limits, values may change without any prior notice.				

Recommended Processing Temperature: 160 – 200 °C

**Note:** This product is not to be used in the manufacture of SUP (Single Use Plastic) items prohibited under PWM (Plastics Waste Management) Rules, 2016.

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## Provisional Technical Datasheet

# B6003



### **Regulatory Requirements:**

HDPE Blow Molding grade B6003 shall meet the requirements stipulated in IS 10146:1982 on 'Specification of Polyethylene for safe use in contact with Foodstuff, Pharmaceutical & Drinking water'. The grade and Additives incorporated in this grade shall meet the positive list of constituents as prescribed in IS 10141:1982. The Grade and the additives incorporated in it shall also comply with the FDA: CFR Title 21,177.1520, Olefin Polymers.

### **Storage & Handling:**

Prevent Polyethylene Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the Storage temperature should not exceed 50 °C. Non - compliance to these precautionary measures can lead to degradation of the product causing Color changes, Odor & inadequate product performance.

### **Health and Safety Information:**

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at [www.opalindia.in](http://www.opalindia.in). Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.



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