

## High Density Polyethylene

## High Density GPBM Grade

### PRODUCT DESCRIPTION:

**HDPE 012DB60** is a natural high density polyethylene grade produced with LyondellBasell's Hostalen Slurry process. The grade exhibits excellent processability, high rigidity, superior mechanical properties and impact resistance.

### RECOMMENDED APPLICATIONS:

**HDPE 012DB60** is recommended for the following blow-molding applications:

- Containers/ Bottles upto 20L Capacity
- Containers for packing of Lubricants and Edible Oils

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### Typical Properties:

Tested Properties <sup>#</sup>	Test Method	UOM	Values*
<b>Resin Properties</b>			
Melt Flow Index (190°C & 5 Kg)	ASTM D1238	g/10min	1.3
Density @ 23°C	ASTM D1505	g/cm <sup>3</sup>	0.960
<b>Mechanical Properties</b>			
Tensile Strength @ Yield (Type-IV)	ASTM D638	MPa	32
Elongation @ Break (Type-IV)	ASTM D638	%	>850
Notched Izod Impact Strength @ 23°C	ASTM D256	J/m	300
Flexural Modulus	ASTM D790	MPa	1300
Hardness	ASTM D2240	Shore D	65
<b>Thermal Properties</b>			
Vicat Softening Point (@ 10N)	ASTM D1525	°C	125
Heat Deflection Temperature (@ 0.455MPa)	ASTM D648	°C	75

\* Typical values not to be construed as specification limits. Values may change without any prior notice.

<sup>#</sup> Specimens punched from Compression Moulded Sheets for properties to be tested on molded specimens, as per relevant standard(s).

**Recommended Processing Temperature:** 160 – 190°C

### Packaging Information:

This material is packed and available in raffia bags with net content of 25.0 Kg only. The raffia bags used conform to the minimum strength requirements of BIS, however, customer shall take due care while handling the bag. Prolonged exposure of these bags to sunlight may deteriorate the bag's performance and cause spillage and wastage. IOCL does not warranty loss of material due to poor material handling practices.

### Storage & Handling:

Prevent HDPE 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 colour changes, odor and inadequate product performance. It is advised to process HDPE material within 06 months of delivery.

### Regulatory Information:

HDPE 012DB60 meets the "Specification for Polyethylene for its safe use in contact with Foodstuff, Pharmaceuticals and Drinking water" as per IS: 10146. It also conforms to the positive list of constituents as per IS: 16738-2018. The grade and Additives incorporated shall meet with FDA: CFR Title21, 177.1520, Olefin Polymers.

### Disclaimer:

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