

High Density Polyethylene

Medium Blow Molding

Product Description:

HDPE 003DB52 is a high molecular weight high density bimodal grade produced by Lyondell Basell 's Hostalen slurry process with following features:

- Good Processability,
- Balanced stiffness & impact strength

Recommended Applications:

HDPE 003DB52 is Medium capacity blow molding grade recommended for:

- Containers / Bottles upto 100 Litre capacity
- Blow molded water tanks upto 1000 Litres
- Sheet Extrusion application

Typical Properties:

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190°C & 5 Kg)	ASTM D 1238	gm/10 min	0.32
Melt Flow Index (190°C & 21.6 Kg)	ASTM D 1238	gm/10 min	9.5
Density @ 23°C	ASTM D 1505	gm/cm ³	0.952
Mechanical Properties			
Tensile Strength @ Yield (Type-IV)	ASTM D 638	MPa	32
Elongation @ Yield (Type-IV)	ASTM D 638	%	10
Flexural Modulus	ASTM D 790	MPa	1300
Notched Izod Impact Strength @ 23°C	ASTM D 256	J/m	300
Hardness	ASTM D2240	Shore D	62
Thermal Properties			
Vicat Softening Point	ASTM D 1525	°C	126

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

** Mechanical properties were determined on compression moulded specimens.

Recommended Processing Temperature: 180 – 220 °C

Packaging Information:

This material is packed and available in raffia bags with net content of 25.0 Kg only. The raffia bags used conforms 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.

Regulatory Information:

HDPE 003DB52 meets "Specification for Polyethylene for safe use in contact with Foodstuff, Pharmaceutical & Drinking water" as per IS:10146-1982. It also conforms to the positive list of constituents as prescribed in IS:10141-1982. The grade and Additives incorporated meet with FDA:CFR Title21,177.1520, Olefin Polymers.

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 Color changes, Odor & inadequate product performance. It is advised to process HDPE material within 06 months after delivery.

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