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001DB52

High Density Polyethylene — Large Blow Molding

Product Technical Datasheet

Product Description:

HDPE 001DB52 is a high molecular weight high density bimodal grade produced by Lyondell Basell's Hostalen - slurry process with following features:

- Easy Processability
- Good balance of stiffness and impact properties.

Recommended Applications:

HDPE 001DB52 is blow molding grade recommended for:

- Large containers and L-ring drums for chemical & Industrial packaging having volume upto 240 Litres

Typical Properties:

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190^{0}C & 10 Kg)	ASTM D 1238	gm/10 min	0.40
Melt Flow Index (190^{0}C & 21.6 Kg)	ASTM D 1238	gm/10 min	2.8
Density @ 23^{o}C	ASTM D 1505	gm/cm^3	0.952
Mechanical Properties			
Tensile Strength @ Yield (Type-IV)	ASTM D 638	MPa	33
Elongation @ Yield (Type-IV)	ASTM D 638	%	9
Flexural Modulus	ASTM D 790	MPa	1350
Notched Izod Impact Strength @ 23^{o}C	ASTM D 256	J/m	No Break
Hardness	ASTM D2240	Shore D	63
Thermal Properties			
Vicat Softening Point	ASTM D 1525	^{o}C	128

* 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 ^{o}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 001DB52 meets the "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 ^{o}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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Registered Office Address →
G-9, Aliyavar Jung Marg,
Bandra (East), Mumbai – 400051
Maharashtra, India.

Contact Address →
Product Application and Development Center (PADC),
Near Panipat Naphtha Cracker Complex,
Village – Baljattan, Panipat – 132140, Haryana, India

Contact Details →
Tel : +91-180-2526702, 2526704
Fax : +91-180-2528651
Web : https://propel.indianoil.in