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002DB52

High Density Polyethylene — Large Blow Moulding

Provisional Technical Datasheet

Product Description:

HDPE 002DB52 is a natural high density bimodal polyethylene grade produced by LyondellBasell's Hostalen Slurry process with excellent processability and mechanical properties. This grade exhibits a good balance of stiffness and impact properties.

BIS Designation Code for HDPE 002DB52 as per IS 7328:2020 is: **IS 7328-3B-BBQ-FXTA.**

Recommended Applications:

HDPE 002DB52 is recommended for large-volume blow moulding applications such as:

- Large containers >100L
- L-ring Drums
- Large Containers for Chemicals, Pesticides, Lube Oils, Water etc.

Typical Properties: Need pricing, availability, or technical support? Explore our website - www.jitsy.in

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190^{0}C & 5.0Kg)	ASTM D1238	g/10min	0.20
Melt Flow Index (190^{0}C & 21.6Kg)	ASTM D1238	g/10min	5.00
Density @ 23^{0}C	ASTM D1505	g/cm^3	0.9530
Mechanical Properties			
Tensile Strength @ Yield (Type-IV)	ASTM D638	MPa	28
Elongation @ Yield (Type-IV)	ASTM D638	%	10
Elongation @ Break (Type-IV)	ASTM D638	%	>700
Flexural Modulus	ASTM D790	MPa	1200
Notched Izod Impact Strength @ 23^{0}C	ASTM D256	J/m	>500 (NB)
Hardness	ASTM D2240	Shore D	63
Thermal Properties			
Heat Deflection Temperature (@ 0.455MPa)	ASTM D648	°C	75
Vicat Softening Point (@ 10N)	ASTM D1525	°C	126
Environmental Properties			
ESCR (10% Igepal), F_{50}	ASTM D1693B	Hrs	>500

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

* Mechanical Properties tested on specimens punched from Compression Moulded Sheets.

Recommended Processing Temperature: 180 – 220^{0}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.

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 002DB52 meets the "Specification for Polyethylene for safe use in contact with Foodstuff, Pharmaceuticals and Drinking water" as per IS: 10146-1982. 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.

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