



High Density Polyethylene

High Density GPBM Grade

Product Description:

HDPE 012DB60 is a High Density Polyethylene manufactured using Lyondell Basell's Hostalen Slurry Process with following features:

- Superior Processability
- Superior mechanical Properties and Impact Resistance
- High Rigidity

Recommended Applications:

HDPE 012DB60 is recommended for following applications

- Containers / Bottles upto 20 ltrs capacities
- Containers for packing of Lubricants and Edible Oils

Typical Properties:

| Tested Properties | Test Method | UOM | Values* |
|---|-------------|--------------------|---------|
| | | | |
| Resin Properties | | | |
| Melt Flow Index (190°C & 5 Kg) | ASTM D 1238 | gm/10 min | 1.3 |
| Density @ 23°C | ASTM D 1505 | gm/cm ³ | 0.960 |
| Mechanical Properties | | | |
| Tensile Strength @ Yield (Type-IV) | ASTM D 638 | MPa | 32 |
| Elongation @ Break (Type-IV) | ASTM D 638 | % | >850 |
| Notched Izod Impact Strength @ 23 °C | ASTM D 256 | J/m | 300 |
| Flexural Modulus | ASTM D790 | MPa | 1300 |
| Hardness | ASTM D2240 | Shore D | 65 |
| Thermal Properties | | | |
| Vicat Softening Point (10N) | ASTM D1525 | °C | 125 |
| Heat Deflection Temperature (0.455 Mpa) | ASTM D648 | °C | 75 |

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

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 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 010DB50 shall meet "Specification for Polyethylene for safe use in contact with Foodstuff, Pharmaceuticals and Drinking water" as per IS: 10146-1982. It also confirms to the positive list of constituents as per IS: 10141-1982. The grade and Additives incorporated shall 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 no exceed 50°C. Non - compliance to these precautionary measures can lead to degradation of the product causing color changes, odor and inadequate product performance. It is advised to process HDPE material within 06 months of delivery.

Disclaimer: IOCL assumes no liability whatsoever in respect of application, processing or any use made of the aforementioned information or products, or any consequence thereof. No liability whatsoever shall attached to any of the IOCL companies for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of application, processing or use of the afore-mentioned information or products by the user.



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, 2526708
Fax : +91-180-2528689
Web : https://propel.indianoil.in

^{*} Mechanical Properties tested on compression Molded test specimens.