

B55H03



High Density Polyethylene

Blow Molding

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Product Description:

HDPE B55H03 is a natural colored grade produced with the latest Mitsui CX slurry polymerization Technology exhibiting following features:

- ✓ High Impact Strength
- ✓ Rigidity
- ✓ Low Parison Sag
- ✓ Good ESCR Properties

HDPE B55H03 is recommended for following applications:

- ✓ Large Containers (up to 100L) for transport & storage of Chemicals, Detergent, Lube Oil etc.
- ✓ Blow Molded Water Tanks (up to 1000L)

Typical Properties:

| Sr. No. | Properties | Test Method | Units | Values* |
|---|---|-------------|--------------------|---------|
| Physical Properties | | | | |
| 1 | Melt Flow Index (190°C & 5.00 kg) | ASTM D1238 | g / 10 min | 0.35 |
| 2 | Melt Flow Index (190°C & 21.6 kg) | ASTM D1238 | g / 10 min | 9.00 |
| 3 | Density (at 23 °C) | ASTM D1505 | gm/cm ³ | 0.955 |
| Mechanical Properties | | | | |
| 4 | Tensile Strength @ Yield (50mm / min) | ASTM D638 | MPa | 28 |
| 5 | Tensile Strength @ Break | ASTM D638 | MPa | 40 |
| 6 | Elongation @ Break (50mm / min) | ASTM D638 | % | >600 |
| 7 | Notched Izod Impact Strength (at 23 °C) | ASTM D256A | J/m | 500 |
| 8 | Charpy Impact Strength | ISO 179-1 | KJ/m ² | NB |
| 9 | Flexural Modulus | ASTM D790A | MPa | 1000 |
| 10 | ESCR (F ₅₀ , 10% Igepal Soln. v/v) | ASTM D1693B | Hours | >600 |
| 11 | Hardness | ASTM D2240 | Shore D | 64 |
| Thermal Properties | | | | |
| 12 | Vicat Softening Point (10N) | ASTM D1525 | °C | 129 |
| 13 | Heat Deflection Temperature (0.455 Mpa) | ASTM D648 | °C | 80 |
| ** Mechanical Properties tested on Compression Molded Specimen. | | | | |
| * Typical Values and not to be taken as specification limits, values may change without any prior notice. | | | | |

Recommended Processing Temperature: 180 – 220 °C

Note: This product is not to be used in the manufacture of SUP (Single Use Plastic) items prohibited under PWM (Plastics Waste Management) Rules, 2016.

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Regulatory Requirements:

HDPE Blow Molding grade B55H03 meets the requirements stipulated in IS 10146:1982 on 'Specification of Polyethylene for safe use in contact with Foodstuff, Pharmaceutical & Drinking water'. The grade and Additives incorporated in this grade meets the positive list of constituents as prescribed in IS 10141:1982. The Grade and the additives incorporated in it also comply with the FDA: CFR Title 21,177.1520, Olefin Polymers.

Storage & Handling:

Prevent Polyethylene 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.

Health and Safety Information:

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at www.opalindia.in. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.



ONGC Petro additions Ltd

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