



52GB001

HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE LARGE VOLUME BLOW MOULDED CONTAINERS

52GB001 is a High Molecular Weight High Density Polyethylene (HMHDPE) blow moulding grade with very good impact strength, stiffness and good ESCR. It possesses medium molecular weight distribution and easy processability. 52GB001 can readily be processed on most of the large volume blow moulding machines with accumulators.

| Typical Characteristics* | | | |
|---------------------------------|-------------|--------------------|-----------------|
| Property | Test Method | Unit | Typical Value** |
| Melt Flow Index (190°C/10.0 kg) | ASTM D1238 | gm/10 min | 0.40 |
| Melt Flow Index (190°C/21.6 kg) | ASTM D1238 | gm/10 min | 2.3 |
| Density (23°C) | ASTM D1505 | gm/cm ³ | 0.952 |
| Tensile Strength at Yield | ASTM D 638 | MPa | 30 |
| Elongation at Yield | ASTM D 638 | % | 10 |
| Flexural Modulus | ASTM D 790 | MPa | 1100 |
| Notched Izod Impact Strength | ASTM D 256 | J/m | No Break |
| Vicat Softening Point | ASTM D1525 | °C | 126 |

*Typical Characteristics and not to be taken as specifications

**Mechanical Properties are on Compression moulding

Applications

Large containers upto 240L.

Regulatory Information

- Meets the requirements stipulated in standard IS : 10146 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to the positive list of constituents as prescribed in IS : 10141. The grade and the additives incorporated in it also comply with the FDA:CFR Title 21, 177.1520, Olefin polymers.

Storage Recommendations

- Bags should be stored in dry/ closed conditions at temperatures below 50°C and protected from UV/ direct sunlight.