



PROVISIONAL

52GB007

**HIGH MOLECULAR WEIGHT
HIGH DENSITY POLYETHYLENE**
FOR MEDIUM VOLUME BLOW MOULDED CONTAINERS/LINERS

52GB007 is a High Molecular Weight High Density Polyethylene blow moulding grade with high stiffness and impact strength and good ESCR. It possesses medium molecular weight distribution, very good swell and easy processability. 52GB007 can readily be processed on most HDPE blow molding machines. This grade can also be used for HM film and liners.

| Typical Characteristics• | | | |
|----------------------------------|-------------|--------------------|-----------------|
| Property | Test Method | Unit | Typical Value** |
| Melt Flow Index (190 °C/5.0 kg) | ASTM D1238 | gm/10 min | 0.70 |
| Melt Flow Index (190 °C/21.6 kg) | ASTM D1238 | gm/10 min | 12.5 |
| Density (23°C) | ASTM D 792 | gm/cm ³ | 0.952 |
| Tensile Strength at Yield | ASTM D638 | MPa | 26 |
| Elongation at Yield | ASTM D638 | % | 10 |
| Elongation at Break | ASTM D638 | % | 800 |
| Flexural Modulus | ASTM D790 | MPa | 1000 |
| Notched Izod Impact Strength | ASTM D256 | J/m | 300 |
| Vicat Softening Point | ASTM D1525 | °C | 126 |

*Typical Characteristics and not to be taken as specifications

**Mechanical Properties are on Compression molded specimen

Applications:

Medium volume blow molded containers with handle (upto 100 liter), liners, Wide width film, Pond liners, Sheets, Shopping bags & Trash bags.

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 IS 16738:2018 "Positive List of Constituents for Polypropylene, Polyethylene and their Copolymers for its Safe Use in Contact with Foodstuffs and Pharmaceuticals"
- The grade and the additives incorporated in it also comply with the FDA: CFR Title 21,177.1520, Olefin polymers.
- 52GB007 is not intended for use in medical and pharmaceutical applications.

Storage Recommendations

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

DISCLAIMER

The information contained herein may include typical properties and processing parameters of the grade or its typical performances when used in respective applications. The values given above are based on analysis of representative samples and not the actual product supplied. It is the customer's responsibility to inspect and test our grades in order to satisfy itself as to the suitability of the products for customers' particular application. The customer is solely responsible for all determinations regarding any use of material or product and any process in its area of interest. RIL assumes no obligation or liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of using any of the information or product given in this document. The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorized agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.