52GB007

HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE

FOR MEDUIM 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, liners and other extrusion applications.

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 (23ºC)	ASTM D1505	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	ºC	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, other extruded/molded applications.

Regulatory Information

- Meets the requirements stipulated in standard IS: 10146:1982 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.

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Updated as of Jan 2020

Storage Recommendations

- Bags should be stored in dry/closed conditions at temperatures below 50℃ 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.

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