



Technical Data Sheet

HIGH DENSITY POLYETHYLENE

BG-HD-8200B

PRODUCT DESCRIPTION

8200B is a high density polyethylene resin; a product of bi-modal process from Mitsui Chemicals, Inc. High density polyethylene, copolymer, with basic stabilization (such as Calcium Stearate- Antioxidant 168 & 1010). Ethylene and 1-butene are the only monomers used for producing 8200B grade; there are not used plasticizers or colored master batches. The product has natural color.

TYPICAL APPLICATION

- ◆ Excellent environmental stress cracking resistance
- ◆ Mechanical strength and hot creep resistance
- ◆ Good impact strength
- ◆ low parison sag
- ◆ chemical storage tanks
- ◆ large-sized containers and gallons
- ◆ Automobile fuel tank
- ◆ Large container for transport and storage of chemicals and water

Physical & Mechanical Properties

Property	Test Method	Standard	Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	0.022– 0.038	0.034	g/10 min
Density	ASTM D 792	0.950 – 0.954	0.953	g/cm ³
Melting Point	ASTM D 2117	132	137	°C
Tensile Strength at Yield	ASTM D 638	26	26	MPa
Tensile Strength at Break	ASTM D 638	≥27	32	MPa
Elongation at Break	ASTM D 638	≥500	780	%
Charpy Impact Strength (230°C & 50% Humidity & Hammer 1 J)	ISO 179-1	NB	NB	kJ/m ²
Stress cracking resistance (50±0.50C/IGEPAL CA630 solution 10%)	ASTM D 1693	≥600	On going	hr.
Vicat softening temperature (10N, Temperature Rate 120°C/hr.)	ASTM D 1525	123	130	°C

PRODUCT AVAILABLE FORM AND PACKAGING

- ◆ Pellet
- ◆ 25 kg loose bag (1.5 ton Pallet)
- ◆ Big bag with specified weight

STORAGE

- ◆ Store in original container in tidy according to the manual of Handling and Storage from Miandoab Petrochemical Company .
- ◆ Product(s) should be stored in dry and dust free location at temperature below 50°C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and color changes and can have negative effects on the physical properties of this product.
- ◆ Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination



Miandoab
Petrochemical Company
(Private Joint Stock)

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- ◆ The storage area should be stable and not be sloped.

SAFETY

- ◆ The product is not classified as a hazardous material.
- ◆ Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products;

RECYCLING

- ◆ The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling
- ◆ Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products.

RELATED DOCUMENTS

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

- ◆ Material Safety Data Sheet

DISCLAIMER

- ◆ The product can be used only for the application as specified here above.
- ◆ To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information
- ◆ We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose
- ◆ It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for
- ◆ the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our product.
- ◆ No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials