



MEHR PETROCHEMICAL COMPANY HIGH DENSITY POLYETHYLENE TECHNICAL DATASHEET

5200B (BLOW MOLDING GRADE)

PRODUCT DESCRIPTION

5200B is a high density polyethylene resin suitable for producing chemical bottles by using extrusion blow molding machine.

TYPICAL APPLICATION

- | | |
|--|--|
| <ul style="list-style-type: none"> ◆ Chemical bottles, Chemical Drums, (Containing volume up to 30 liter) ◆ Personal and homecare bottles ◆ Lube oil bottles ◆ Brake fluid Bottles | <ul style="list-style-type: none"> ◆ Excellent Environmental Stress Cracking Resistance ◆ Good surface appearance ◆ Good processability ◆ Good printability ◆ Food Contact applicable |
|--|--|

PROPERTIES

Physical properties

Property	Test Method	Value	Unit
Resin Properties			
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	0.28 - 0.42	g/10 min
HIMI	ASTM D 1238 @ 190 °C, 21.6 kg	28 - 42	g/10 min
Density	ASTM D 1505	0.958-0.962	g/cm ³
Melting Point	ASTM D 2117	130-140	°C
Vicat Softening Point	ASTM D 1525	128	°C
Brittleness Temperature	ASTM D 746	<-60	°C
ESCR	ASTM D 1693 @ 50 °C	300	hrs, F ₅₀
Tensile Strength at Yield	ASTM D 638 @ crosshead speed 50mm/min	280	kg/cm ²
Tensile Strength at Break	ASTM D 638 @ crosshead speed 50mm/min	350	kg/cm ²
Elongation at Break	ASTM D 638 @ crosshead speed 50mm/min	1000	%
Flexural Modulus	ASTM D 790	12000	kg/cm ²
Notched IZOD impact	ASTM D 256 @ 23 °C	10	Kg.cm/cm
Hardness	ASTM D 2240	66	Shore D

Note : Conversion factor for changing unit from kg/cm² to MPa is divided by 10.2

PROCESSING TECHNIQUES

The actual extrusion conditions depend on type of using machine, size and wall thickness of product required.

Generally, melt temperature should be 160-180 °C. 5-8 bar of blowing pressure is recommended.

In some cases, enlargement of die and pin diameter (15-30%) may be suggested for increasing parison diameter.

Product Technical Assistance

For technical assistance or further information on this product contact MHPC technical team at the address or telephone number as specified below.



MEHR PETROCHEMICAL COMPANY HIGH DENSITY POLYETHYLENE TECHNICAL DATASHEET

5200B (BLOW MOLDING GRADE)

PRODUCT AVAILABLE FORM AND PACKAGING

- ◇ Pellet
- ◇ 25 kg loose bag
- ◇ Big bag with specified weight

STORAGE

- ◇ Store in original container in tidy according to the manual of Handling and Storage from Mehr 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 odor 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
- ◇ 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;
- ◇ For more information, contact Mehr Petrochemical company technical service.

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.
- ◇ For more information, contact Mehr Petrochemical company technical service.

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
- ◇ Statement on compliance to food contact regulations

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