



HDPE BL7-LR

Product Description

BL7-LR is a high molecular weight, high-density polyethylene (HDPE) designed for large-part blow molding. Its optimized molecular structure ensures high melt strength for stable parison formation, excellent environmental stress crack resistance, and good impact performance. BL7-LR processes efficiently at high extrusion rates, enabling cost-effective production and consistent quality. Ideal for large blow-molded containers like L-Ring drums.

Form(s): Pellet

Applications

- 220L L-ring drums
- Open top drums
- Jerrycans
- Large-sized containers and gallons

*Material properties (this data are typical values and shall not be construed as product specifications.)

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Density (23°C)	ISO 1183	g/cm ³	0.952 ± 0.002
Melt Flow Rate (190°C/5.0kg)	ASTM D1238	g/10min	0.21 ± 0.03
Melt Flow Rate (190°C/21.6 kg)	ASTM D1238	g/10min	6 ± 1
Stress at Yield	ASTM D638	MPa	26
Flexural Modulus	ASTM D790	MPa	>1000
Elongation at Break	ASTM D638	%	>500
Elongation at yield	ASTM D638	%	10
Brittle Temperature	ASTM D746-72	°C	< - 70
ESCR, F50 (50±0.50°C/IGEPAL 10%)	ASTM D1693	Hr.	>1000
Notched Izod Impact strength (23°C)	ASTM D256	Kj/m ²	36
Swell ratio	MPC Method	%	>135

Recommended Process Conditions

Extruder Barrel Temperature: 180-220 °C Melt Temperature: 200-235 °C

Health and Safety

The resin is manufactured to the highest standards, but special requirements apply to certain applications such as food end-use contact and direct medical use. Specific information on regulatory compliance can be requested via customer. Molten polymer may be degraded if it is exposed to air during any of the processing and off-line operations. The products of degradation may have an unpleasant odor. In higher concentrations they may cause irritation of the mucus membranes. Fabrication areas should be ventilated to carry away fumes or vapors. Legislation on the control of





emissions and pollution prevention should be observed. Workers should be protected from the possibility of skin or eye contact with molten polymer. The resin will burn when supplied with excess heat and oxygen. It should be handled and stored away from contact with direct flames and/or ignition sources. While burning, the resin contributes high heat and may generate a dense black smoke. Recycled resins may have previously been used as packaging for, or may have otherwise been in contact with, hazardous goods. Converters are responsible for taking all necessary precautions to ensure that recycled resins are safe for continued use. The detailed information about safety, handling, individual protection and waste disposal is provided in the relevant Safety Data Sheet. Additional specific information can be requested via customer.

Storage

Polyethylene resins should be protected from direct sunlight and/or heat during storage. The storage location should also be dry, dust free and the storage temperature should not exceed 50 °C. It is also advisable to process polyethylene resins (in pelletized or powder form) within 6 months after delivery, because excessive aging of polyethylene can lead to a deterioration in quality. Marun Petrochemical Company would not give any warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance.

The information provided in this Product Data Sheet has been based upon the current level of knowledge and experience. They are not to be interpreted as a warranty for specific product characteristics. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. Customer is responsible for determining whether the products and the information in this document are appropriate for customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document.

