



## Technical Datasheet

# B0151D Polysure HDPE

## General Purpose Blow Molding

Need pricing, availability, or technical support? Explore our website - [www.jitsy.in](http://www.jitsy.in)

### Product Characteristics:

Polysure B0151D is a 1-Hexene co-monomer based High Density Polyethylene, produced by Advanced Dual Loop Slurry MarTECH™ technology, having bimodal molecular weight distribution, suitable for Blow Molding process. B0151D offers exceptional processability, very good melt strength & high ESCR properties.

### Recommended Applications:

General purpose blow molded containers up to 20 lit for Lube oils, Edible oils, Cosmetic packaging, Jerry cans, Detergent containers. This grade can also be used to make Double Walled Corrugated Pipes

### Typical Properties:

Sr. No.	Property	Test Method	Unit	Value*
1	Melt Flow Index (190°C & 2.16 kg)	ASTM D1238	g/10 min	0.35
2	Density (23°C)	ASTM D1505	g/cc	0.951
3	Tensile Strength at Yield, Type IV Specimen	ASTM D638	MPa	27
4	Tensile Elongation at Break, Type IV Specimen	(50 mm / min)	%	1000
5	Flexural Modulus (2% Secant)	ASTM D790B	MPa	1000
6	Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	350
7	Vicat Softening Point (10N)	ASTM D1525	°C	126
8	Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	72
9	Hardness	ASTM D2240	Shore D	62
10	ESCR (F <sub>50</sub> ), 10% Igepal	ASTM D1693B	Hour	1000

\* All the mechanical properties are determined on Compression Molded Test Specimen, prepared in accordance with ASTM D4703

### Processing Guidelines:

- Barrel Temperature : 160 - 175°C
- Die Temperature : 165 - 180°C

### Storage & Handling:

Bags should be stored in dry & dust free environment at temperature below 50°C and Prevent from direct exposure to sunlight & heat to avoid quality deterioration.

This grade meets the requirements of IS 7328:2020 - Specification for Polyethylene Material for Moulding and Extrusion.

Need pricing, availability, or technical support? Explore our website - [www.jitsy.in](http://www.jitsy.in)

### Regulatory Requirements:

B0151D to be manufactured complying the requirements specified in IS 10146 on "Specification for Polyethylene for its safe in contact with Foodstuff, Pharmaceutical & Drinking water". Furthermore, the Additives added in this grade formulation compiles to the "Positive list of constituents for Polypropylene, Polyethylene and their Copolymers for its safe use in contact with Foodstuffs & Pharmaceuticals" as laid down under IS.16738:2018. In general, the additives & constituents used in the grade are in line with requirement laid down under FDA: CFR Title 21,177.1520, Olefin Polymers.

Updated as of July 2025

**Disclaimer:** The information & data presented herein are typical values & should not be considered as specification and may be used as guideline only. HMEL does not undertake any responsibility for any outcome or results from the adoption or replication of the above mentioned data & information there on for possible use for various applications. HMEL reserves the right to change the information & data without any prior notice or information. The user will solely be responsible for any process/product usage.

HPCL-Mittal Energy Limited (HMEL), The Rise, Plot No.17B & 17C, Block - FC, Sector-16A, Noida - 201301 (U.P), India. Tel: 0120-4634500. Corporate Site: [www.hmel.in](http://www.hmel.in)