



TECHNICAL DATA SHEET

**HP**  
**DURAPOL®**

# M50200

**HIGH DENSITY POLYETHYLENE**

**HD IM (HIGH FLOW)**

## Product Description:

HP Durapol M50200 is a Butene based High Density Polyethylene grade recommended for HD Injection Moulded products. The grade offers excellent dimensional stability coupled with better aesthetics

## Standout Characteristics:

Low cycle time, low warpage and superior processability.

## Recommended Applications:

Household articles, Thin walled injection moulded products and food containers

## Typical Properties:

SI. No.	Property	Test Method	Unit	Test Value*
1	Melt Flow Index @190 Deg C, 2.16 kg	ASTM D1238	g/10 min	20
2	Density @23°C	ASTM D1505	g/cc	0.950
3	Tensile Strength at Yield, Type IV Specimen	ASTM D638 (50 mm / min)	MPa	22
4	Tensile Elongation at Break, Type IV Specimen		%	300
5	Flexural Modulus @1% Secant	ASTM D790A	MPa	900
6	Notched Izod Impact Strength @23°C	ASTM D256A	J/m	30
7	Vicat Softening Point (10N)	ASTM D1525	°C	126
8	Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	78

\*All the mechanical properties are tested on injection molded Test Specimen, prepared in accordance with ASTM D4101

## Handling and Storage:

Bags should be stored in dust free, dry and closed storage locations at temperatures not exceeding 50°C. Direct exposure to UV/sunlight needs to be avoided. Non - compliance to storage and handling guidelines may lead to deterioration of the product (change in colour, odour related issues etc.) and underperformance of the product. It is recommended to process the product within 6 months of receipt of the product.

## Packaging Information:

The material is available for sale in FFS (Form, Fill and Seal) bags with net quantity of 25 kgs. Customer should take adequate care while handling the bag. HPCL does not undertake any responsibility for loss of material due to poor/inadequate material handling practices.

## Disclaimer:

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