

M5306L**High Density Polyethylene****Injection Molding****Product Description:**

HDPE M5306L is a natural colored grade produced with the latest Mitsui CX slurry polymerization Technology exhibiting following features:

- ✓ Different Stabilizer.
- ✓ Good Mechanical Properties.

HDPE M5306L is recommended for following applications:

- ✓ Caps & Closures
- ✓ Caps for Milk Bottles
- ✓ General Purpose Molding

Typical Properties:

Sr. No.	Properties	Test Method	Units	Values*
Physical Properties				
1	Melt Flow Index (190°C & 2.16 kg)	ASTM D1238	g / 10 min	6.0
2	Density (at 23 °C)	ASTM D1505	gm/cm ³	0.953
Mechanical Properties				
3	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	21.0
4	Tensile Strength @ Break (50mm / min)	ASTM D638	MPa	13.0
5	Elongation @ Break (50mm / min)	ASTM D638	%	350
6	Flexural Modulus	ASTM D790	Mpa	800
7	Izod Impact Strength (at 23 °C)	ASTM D256	J/m	35
8	Charpy Impact Strength	ISO 179-1	KJ/m ²	4.2
9	Hardness	ASTM D2240	Shore D	63
10	Stress Cracking Resistance (F ₅₀)	ASTM 1693	Hrs	8
Thermal Properties				
11	Vicat Softening Point (10N)	ASTM D1525	°C	121
12	Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	78
** Mechanical Properties tested on Injection molded specimen in accordance with ASTM D4101 and conditioned as per ASTM D618.				
* Typical Values and not to be taken as specification limits, values may change without any prior notice.				

Recommended Processing Temperature: 190 – 230 °C

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M5306L



Regulatory Requirements:

HDPE grade M5306L shall meet the requirements stipulated in IS 10146:1982 on 'Specification of Polyethylene for safe use in contact with Foodstuff, Pharmaceutical & Drinking water'. The grade and Additives incorporated in this grade shall meet the positive list of constituents as prescribed in IS 10141:1982. The Grade and the additives incorporated in it shall also comply with the FDA: CFR Title 21,177.1520, Olefin Polymers.

Storage & Handling:

Prevent Polyethylene Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the Storage temperature should not exceed 50 °C. Non - compliance to these precautionary measures can lead to degradation of the product causing Color changes, Odor & inadequate product performance.

Health and Safety Information:

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at www.opalindia.in. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

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