

P4002



High Density Polyethylene

Pipe Extrusion

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Product Description:

HDPE P4002 is a natural colored grade produced with the latest Mitsui CX slurry polymerization Technology exhibiting following features:

- ✓ Very Good Processing Properties
- ✓ Good mechanical properties
- ✓ Excellent Stress Crack Resistance
- ✓ Good external appearance

HDPE P4002 is recommended for following applications:

- ✓ Water Pipes
- ✓ Pressure Pipes for City Gas distribution
- ✓ Sprinkler & Irrigation pipes

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	0.20
2	Density (at 23 °C)	ASTM D1505	gm/cm ³	0.940
Mechanical Properties				
3	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	20
4	Tensile Strength @ Break (50mm / min)	ASTM D638	MPa	>23
5	Elongation @ Break (50mm / min)	ASTM D638	%	>500
6	Notched Izod Impact Strength (at 23 °C)	ASTM D256A	J/m	>200
7	Charpy Impact Strength	ISO 179-1	KJ/m ²	NB
8	Flexural Modulus	ASTM D790A	Mpa	900
9	Hardness	ASTM D2240	Shore D	60
10	ESCR (F ₅₀ , 10% Igepal Soln. v/v)	ASTM D1693B	Hours	>600
Thermal Properties				
11	Vicat Softening Point (10N)	ASTM D1525	°C	115
* Mechanical Properties tested on Compression Molded Specimen.				
* Typical Values and not to be taken as specification limits, values may change without any prior notice.				

Recommended Processing Temperature: 190 – 220 °C

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Regulatory Requirements:

HDPE Pipe grade P4002 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.



ONGC Petro additions Ltd

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