

D2001S



Linear Low Density Polyethylene

Drip Laterals

Product Description:

LLDPE D2001S is a Butene co-monomer based natural colored grade produced with the latest Ineos Gas Phase polymerization Technology exhibiting following features:

- ✓ Excellent Mechanical Properties
- ✓ Very Good surface finish & Gloss
- ✓ Excellent Processability
- ✓ Good ESCR properties

LLDPE D2001S is recommended for following applications:

- ✓ Drip laterals
- ✓ General Purpose Packaging Films

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	1.0
2	Density (at 23 °C)	ASTM D1505	gm/cm ³	0.920
Mechanical Properties				
3	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	12.0
4	Tensile Strength @ Break (50mm / min)	ASTM D638	Mpa	18.0
5	Elongation @ Yield (50mm / min)	ASTM D638	%	13
6	Elongation @ Break (50mm / min)	ASTM D638	%	>500
7	ESCR (F ₅₀ , 10% Igepal Soln. v/v)	ASTM D1693B	Hrs	1000
* Mechanical Properties tested on Injection Molded Specimen.				
* Typical Values and not to be taken as specification limits, values may change without any prior notice.				

Recommended Processing Temperature: 200 – 230 °C

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Provisional Technical Datasheet

D2001S



Regulatory Requirements:

LLDPE grade D2001S 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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