



# JD22010

## LINEAR LOW DENSITY POLYETHYLENE DRIP LATERAL PIPE GRADE

JD22010 is a Butene Comonomer based Linear Low Density Polyethylene (LLDPE), for Drip lateral applications. Drip laterals produced out of this grade has outstanding processability, tensile and elongation properties. This grade meets the requirements of material as per IS 12786: 1989 on 'Irrigation equipment-Polyethylene pipes for irrigation laterals-specification'. When incorporated with adequate quantity of carbon black as specified in clause 4.1 of IS 12786: 1989, the pipe made from this grade will meet the creep rupture stress requirement of PE-25 class.

### Additives details:

- Heat Stabilizer: Yes

### TYPICAL CHARACTERISTICS\*

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Density (23°C)	ASTM D 792	g/cc	0.922
Melt Flow Index (190°C / 2.16 Kg)	ASTM D 1238	g/10 min.	1.1
<b>Typical Properties**</b>			
Tensile Strength @ Break	ASTM D 638	MPa	20
Elongation at Break	ASTM D 638	%	1000
Environmental Stress Crack Resistance (F50,10% Igepal,50 °C)	ASTM D 1693	Hr	>1000

\* Typical characteristics and not to be taken as specifications

\*\* Typical properties are on compression molded specimens

### Applications

The grade is recommended for different range of wall thickness drip irrigation tubing for online drip laterals and flat as well as round emitting pipe.

### Typical Process Conditions:

- Typical Process Temp (°C) - 180 – 230

### Regulatory Information

- This grade meets the requirements stipulated in IS 7328:2020, "Specification For Polyethylene Material For Moulding And Extrusion" and it's subsequent amendments, when the products are used in contact with foodstuffs, pharmaceuticals and drinking water. It also conforms to IS 16738:2018 "Positive List of Constituents for Polypropylene, Polyethylene and their Copolymers for its Safe Use in Contact with Foodstuffs and Pharmaceuticals"
- The grade and the additives incorporated in it also comply with the FDA: CFR Title 21,177.1520, Olefin polymers.
- BIS Designation Code : IS 7328-2B-NBF-BDA.
- Not to be used in the manufacture of Single Use Plastic (SUP) items prohibited under PWM Rules, 2016.

## Storage Recommendations

- Bags should be stored in dry/closed conditions at temperatures below 50°C and protected from UV / direct sunlight.

## DISCLAIMER

*The information contained herein may include typical properties and processing parameters of the grade or its typical performances when used in respective applications. The values given above are based on analysis of representative samples and not the actual product supplied. It is the customer's responsibility to inspect and test our grades in order to satisfy itself as to the suitability of the products for customers' particular application. The customer is solely responsible for all determinations regarding any use of material or product and any process in its area of interest. RIL assumes no obligation or liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of using any of the information or product given in this document. The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorized agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.*