



# LL20DS010

## LINEAR LOW DENSITY POLYETHYLENE DRIP LATERALS GRADE

LL20DS010 is a Butene Comonomer based Linear Low Density Polyethylene (LLDPE), for Drip lateral applications. Drip laterals produced out of this grade has outstanding processability and, 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.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Melt Flow Index (190°C / 2.16 kg)	ASTM D1238	gm/10 min	1.2
Density (23°C)	ASTM D1505	gm/cm <sup>3</sup>	0.920
Tensile Strength at Yield <sup>#</sup>	ASTM D638	MPa	12
Elongation at Yield	ASTM D638	%	13
Elongation at Break	ASTM D638	%	>350

\*Typical values not to be taken as specification

\*\*Mechanical Properties are on Injection Moulded Specimen

### Applications

Drip laterals, general purpose packaging

### Regulatory Information

- Meets the requirements stipulated in standard IS : 10146 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to the positive list of constituents as prescribed in IS : 10141. The grade and the additives incorporated in it also comply with the FDA:CFR Title 21, 177.1520, Olefin polymers.

### Storage Recommendations

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