



GAIL (India) Ltd.
(A Govt. of India Undertaking)
Petrochemicals Marketing

D22S010

Linear Low Density Polyethylene for Drip Irrigation Extrusion pipe

Product Description and Typical Applications:

D22S010 is recommended for drip irrigation extruded products. This grade meets the requirements of material as per IS 12786:1989. The pipe made from this grade meets hydrostatic characteristics (creep rupture stress requirement) for PE-25 material when incorporated with adequate quantity of carbon black as specified in clause 4.1 of IS 12786:1989. The material conforms to natural resin designation IS 7328-2B-NB-BXDA of IS 7328:2020.

| Property | Values | Unit | Test Method |
|-----------------------------------|--------|--------------------|--------------------|
| Melt Flow Index (I ₂) | 1.0 | g/10min | ASTM D1238 |
| Density @ 23°C | 0.922 | g/cc | ASTM D1505 |
| Tensile Strength @ Yield | 130 | kg/cm ² | ASTM D638, Type IV |
| Elongation @ Yield | 13 | % | ASTM D638, Type IV |
| Flexural Modulus | 3500 | kg/cm ² | ASTM D790 |
| Vicat Softening Point | 118 | °C | ASTM D1525 |

* Typical characteristics of the product given purely as a guide. Mechanical properties were determined on compression moulded specimens.

Processing Guidelines:

Barrel temperature: 170 - 200°C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

D22S010 is available in natural colour, pellet form in 25 kg woven sacks. The product should be stored in dry conditions at temperature below 50°C and protected from UV light.

For any technical assistance contact:

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The information, data and suggestions contained herein are to the best of our knowledge accurate and reliable. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user specific application.