



O21010

LINEAR LOW DENSITY POLYETHYLENE FOR BLOWN FILM GRADE

O 21010 is an octene comonomer based Linear Low Density Polyethylene (LLDPE), with optimum levels of antioxidant and polymer processing aid but without slip additive and antiblocking agent. The grade is designed for lamination film applications where good optical properties and adhesion to the substrate are required.

| Typical Characteristics* | | | |
|---|-------------|----------|-----------------|
| Property | Test Method | Unit | Typical Value** |
| Density (23°C) | ASTM D 1505 | g/cc | 0.918 |
| MFI (190°C/2.16 Kg) | ASTM D 1238 | g/10 min | 0.90 |
| Tensile Strength at Yield (MD/TD) | ASTM D882 | MPa | 12.5/13.0 |
| Ultimate Tensile Strength (MD/TD) | ASTM D882 | MPa | 45.0/40.0 |
| Elongation at Break (MD/TD) | ASTM D882 | % | 750/950 |
| Dart Impact Strength, F ₅₀ (38 mm Dart, 66 cm Height) | ASTM D 1709 | g/μm | 7.0 |
| Co-efficient of Friction Static Dynamic | ASTM D 1894 | - | 0.58 0.50 |
| Gloss (60°) | ASTM D523 | % | 80 |
| Tear Strength (MD/TD) | ASTM D 1922 | g/μm | 13.8/27.6 |

*Typical Characteristics and not to be taken as specifications

**Typical Values (Mechanical) with 40 μ film made with 1.8 mm die gap & 2.25 BUR

Applications

Specialty lamination film.

Regulatory Information

- Meets the requirements stipulated in standard IS : 10146-1982 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 : 10141-1982. 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.

Reliance Industries Limited, Polymer Research and Technology Centre,
Swastik Mill Compound, V.N. Purav Marg, Chembur, Mumbai-400 071. Tel.: +91-22-6767 7000. E-mail: polymer_patsupport@ril.com Website: www.ril.com

• 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 authorised agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.

Updated as of May, 2007