



F19010

LINEAR LOW DENSITY POLYETHYLENE BLOWN FILM GRADE

F 19010 is a butene comonomer based Linear Low Density Polyethylene (LLDPE), with optimum levels of antioxidant, antiblocking agent, slip additive and polymer processing aid. The grade is designed to make blown film for heavy duty applications and liquid packaging, where good toughness, impact strength and tear resistance are desired.

| 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 | 12.5/12.0 |
| Ultimate Tensile Strength (MD/TD) | ASTM D882 | MPa | 38.0/30.0 |
| Elongation at Break (MD/TD) | ASTM D882 | % | 650/800 |
| Dart Impact Strength, F ₅₀ (38 mm Dart, 66 cm Height) | ASTM D 1709 | g/μm | 3.5 |
| Coefficient of Friction | ASTM D 1894 | - | |
| Static | | | 0.23 |
| Dynamic | | | 0.16 |
| Gloss (60°) | ASTM D523 | % | 80 |
| Tear Strength (MD/TD) | ASTM D 1922 | g/μm | 3.3/10.3 |

*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

Slip, anti-block grade for heavy duty film, liquid packaging.

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.

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