# J1005FY20

## LOW DENSITY POLYETHYLENE
### FILM GRADE FOR LIQUID PACKAGING

J1005FY20 is a film grade Low Density Polyethylene (LDPE). It has been specially formulated for the production of films for liquid milk packaging on fully automatic Form, Fill & Seal (FFS) type of machines. Film produced from this grade exhibits good impact resistance and heat-sealing characteristics. The incorporation of necessary additives in the polymer ensures good surface slip, easy open ability and smooth flow of film on packaging machines. It can be pigmented by using suitable food contact approved masterbatches.

**Additive Details:**

**J1005FY20: ● Slip: Yes ● Antiblock: Yes**

**TYPICAL CHARACTERISTICS***

| PROPERTY | TEST METHOD | UNIT | TYPICAL VALUE** |
|---|---|---|---|
| Density (23˚C) | ASTM D 792 | g/cc | 0.923 |
| Melt Flow Index (190˚C / 2.16 Kg) | ASTM D 1238 | g/10 min | 0.65 |
| Tensile Strength at Break (MD/TD) | ASTM D 882 | MPa | 23/21 |
| Elongation at Break (MD/TD) | ASTM D 882 | % | 300/575 |
| Dart Impact Strength (F50) | ASTM D 1709/A | g/µ | 3.2 |
| Haze | ASTM D 1003 | % | 8 |
| Gloss (60˚) | ASTM D 2457 | - | >90 |

* Typical characteristics and not to be taken as specifications
** Typical properties measured on 40 µm film made with 0.8 mm die gap & 2.5 BUR.

**APPLICATIONS:**

Slip grade for Mono and co-extruded films for liquid and general-purpose consumer packaging, to be used in blend with LLDPE.

**Typical Process Conditions:**

- Melt Temperature (˚C) - 160 – 200
- Recommended Blow Up Ratio (BUR): 1.5 – 3.0 (Based on applications, best results achieved with BUR of 2.5 : 1)
- Die Gap – > 0.8 mm (Based on film thickness and throughput of the machine)



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## Regulatory Information

- Meets the requirements stipulated in standard IS: I0146 on "Specification for Polyethylene for safe use 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.

## Storage Recommendations

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