



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)

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 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.

DISCLAIMER

The information contained herein may include typical properties and processing parameters of the grade or its typical performances when used in respective applications. The values given above are based on analysis of representative samples and not the actual product supplied. It is the customer's responsibility to inspect and test our grades in order to satisfy itself as to the suitability of the products for customers' particular application. The customer is solely responsible for all determinations regarding any use of material or product and any process in its area of interest. RIL assumes no obligation or liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of using any of the information or product given in this document. 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 authorized agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.