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010F18S

Linear Low Density Polyethylene — Blown Film

Product Technical Datasheet

Product Description:

010F18S is a Linear Low Density Polyethylene manufactured using Nova Chemical's Sclairtech Solution Polymerization Technology with following features:

- Good processability
- Good mechanical properties
- Contains slip & antiblock

Recommended Applications:

LLDPE 010F18S is recommended for following applications

- Liquid Packaging films
- Heavy duty films
- Multi layer films
- Carrier bags
- Drip laterals

Typical Properties:

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190^{0}C & 2.16 Kg)	ASTM D 1238	gm/10 min	0.90
Density @ 23°C	ASTM D 1505	gm/cm^3	0.918
Mechanical Properties			
Tensile Strength @ Yield (50 mm/min) MD/TD	ASTM D 882	MPa	13/12
Ultimate Tensile Strength (50 mm/min) MD/TD	ASTM D 882	MPa	39/30
Elongation at Break(50 mm/min) MD/TD	ASTM D 882	%	700/850
Dart Impact Strength (38mm dart,66cm height)	ASTM D 1709	g/µ	3.5
Tear Strength	ASTM D 1922	g/µ	3.3/10.2
Coefficient of Friction(Static/Dynamic)	ASTM D 1894		0.22/0.16
Gloss (60^0)	ASTM D 523	%	80

* Typical values not to be construed as specification limits. Values may change without any prior notice.

* Mechanical Properties tested on 40µ monolayer film made with 1.8 mm die gap & 2.25 BUR.

Recommended Processing Temperature: 170– 210 ^{o}C

Packaging Information:

This material is packed and available in raffia bags with net content of 25.0 Kg only. The raffia bags used conforms to the minimum strength requirements of BIS, however, customer shall take due care while handling the bag. Prolonged exposure of these bags to sunlight may deteriorate the bag's performance and cause spillage and wastage. IOCL does not warranty loss of material due to poor material handling practices.

Regulatory Information:

LLDPE 010F18S shall meet "Specification for Polyethylene for safe use in contact with Foodstuff, Pharmaceuticals and Drinking water" as per IS: 10146-1982. It also confirms to the positive list of constituents as per IS: 10141-1982. The grade and Additives incorporated shall meet with FDA: CFR Title21, 177.1520, Olefin Polymers.

Storage & Handling:

Prevent LLDPE Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the storage temperature should not exceed 50˚C. Non - compliance to these precautionary measures can lead to degradation

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