

# LL7420D1

## Linear Low Density Polyethylene Resin

**Special Characteristics :** InnoPlus LL7420D1 resin is a linear low density polyethylene with butene comonomers, with low content of slip and antiblock. This grade offers an outstanding excellent draw down in blown film processing. Films extruded from InnoPlus LL7420D1 have high tensile strength, gloss and good toughness properties. It can be used for blending with other polyethylene types, such as HDPE and LDPE.

**Typical Applications :** InnoPlus LL7420D1 is recommended for producing the liners, industrial bags, refuse sacks and garbage bags.

### Typical Properties :

Properties	LL7420D1	Unit	Test Method
<b><u>Physical Properties</u></b>			
Melt Index (190 °C, 2.16 kg)	2.0	g/10 min	ASTM D1238
Density	0.920	g/cm <sup>3</sup>	ASTM D792
Melting Point	121	°C	ASTM D3418
Vicat Softening Point	97	°C	ASTM D1525
<b><u>Film Properties*</u></b>			
Tensile Strength at Break (MD/TD)	31 / 23	MPa	ASTM D882
Elongation at Break (MD/TD)	600 / 800	%	ASTM D882
Tensile Modulus, 1% Secant (MD/TD)	195 / 250	MPa	ASTM D882
Dart Impact Strength	85	g	ASTM D1709
Tear Strength (MD/TD)	100 / 300	g	ASTM D1922
Haze	16	%	ASTM D1003
Gloss (45°)	50	-	ASTM D2457

\* Film made on blown film line at blow up ratio 2.5. Gloss (45°) obtained from 40 microns film while other film properties obtained from 25 microns film.

### Processing Condition :

The recommended temperature setting is in the range of 160 - 180 °C for extruder and 170 - 190 °C for die zone.

### FDA Statement :

LLDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 (c) (2.1) and (2.2) regulation for polyethylene used in articles that contact food and suitable for articles used for packaging or holding food during cooking.

### Disclaimer :

This Applications specified herein is for reference only and not suitable for using in the manufacturing of any products in medical and pharmaceutical sectors.

- Determination of suitability of the product for the use and purpose shall be the customer's responsibility. Customer is obligated to inspect and test the product for such suitability. Customer is responsible for appropriate, safe, legal use processing and handling of the product.
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**Note :** Properties reported here are typical values of the product, not to be considered as specifications.

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