

# LL7420D1

## Linear Low Density Polyethylene Resin

**Special Characteristics** : InnoPlus LL7420D1 resin is a linear low density polyethylene with butene comonomers. There are slip and antiblock added. This grade offer an outstanding excellent draw down in blown film processing. Film 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 liner, industrial bag, refuse sack and garbage bag.

### Typical Properties :

Properties	InnoPlus 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	0.918	g/cm <sup>3</sup>	ASTM D792
Melting Point	121	°C	ASTM D2117
Vicat Softening Point	96	°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)	450 / 600	%	ASTM D882
Tensile Modulus, 1% Secant (MD/TD)	195 / 220	MPa	ASTM D882
Dart Impact Strength	85	g	ASTM D1709
Tear Strength (MD/TD)	80 / 318	g	ASTM D1922
Haze	15	%	ASTM D1003
Gloss (45°)	50	-	ASTM D2457
<i>* film properties obtained from 25 microns film which was blown film extruded at blow up ratio 2:1</i>			
<b><u>Mechanical Properties (Based on compression specimens)</u></b>			
Tensile Strength at Yield	100	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	260	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	900	%	ASTM D638
Flexural Modulus	2900	kg/cm <sup>2</sup>	ASTM D790
Durometer Hardness	50	Shore D	ASTM D2240
Notched Izod Impact Strength	40	kg.cm/cm	ASTM D256

### Processing Condition :

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

**Note** : Properties reported here are typical values of the product, not to be considered as specifications.

PTT Chemical makes no representations as to the accuracy or completeness of the information contained herein.