

# LL7410D

Linear Low Density Polyethylene Resin

**Special Characteristics** : InnoPlus LL7410D resin is a linear low density polyethylene with butene comonomers. There are slip and antiblock added. This grade offer the excellent machinability on conversion lines. Film extruded from InnoPlus LL7410D have high tensile strength, elongation, good toughness and outstanding puncture strength. It is available for tubular blown film processing.

**Typical Applications** : InnoPlus LL7410D is recommended for producing the general purpose film, liner, food packaging, heavy duty and agricultural film.

## Typical Properties :

Properties	InnoPlus LL7410D	Unit	Test Method
<b><i>Physical Properties</i></b>			
Melt Index (190 °C, 2.16 kg)	1.0	g/10 min	ASTM D1238
Density	0.918	g/cm <sup>3</sup>	ASTM D792
Melting Point	121	°C	ASTM D2117
Vicat Softening Point	101	°C	ASTM D1525
<b><i>Film Properties*</i></b>			
Tensile Strength at Break (MD/TD)	34 / 26	MPa	ASTM D882
Elongation at Break (MD/TD)	550 / 700	%	ASTM D882
Tensile Modulus, 1% Secant (MD/TD)	190 / 220	MPa	ASTM D882
Dart Impact Strength	100	g	ASTM D1709
Tear Strength (MD/TD)	91 / 350	g	ASTM D1922
Haze	17	%	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><i>Mechanical Properties (Based on compression specimens)</i></b>			
Tensile Strength at Yield	110	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	280	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	790	%	ASTM D638
Flexural Modulus	3100	kg/cm <sup>2</sup>	ASTM D790
Durometer Hardness	52	Shore D	ASTM D2240
Notched Izod Impact Strength	45	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.