

Producer: PTT Chemical / Thailand

## LL7410D

### Description:

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

### Application:

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

### Typical Properties :

PROPERTIES	VALUE	UNIT	TEST METHOD
<b>Physical Properties</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>Film properties</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
<b>Mechanical Properties</b>			
<b>( Based on compression specimens )</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

Film properties obtained from 25 microns film which was blown film extruded at blow up ratio 2:1

### Processing Condition :

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