

# InnoPlus LL7410D1

Linear Low Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus LL7410D1 resin is a linear low density polyethylene with butene comonomers, with low content of slip and antiblock. This grade offers the excellent machinability on conversion lines. Films extruded from InnoPlus LL7410D1 have high tensile strength, elongation, good toughness and outstanding puncture strength. It is available for tubular blown film processing.

InnoPlus LL7410D1 is recommended for producing the general purpose films, liners, food packaging, heavy duty and agricultural films.

General Information	
Additive	Antiblock
	Slip
Features	Antiblocking
	Butene Comonomer
	Food Contact Acceptable
	Good Toughness
	High Elongation
	High Tensile Strength
	Machinable
	Puncture Resistant
	Slip
Uses	Agricultural Applications
	Film
	Food Packaging
	Liners
Agency Ratings	FDA 21 CFR 177.1520
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Blown Film
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	52		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength			ASTM D638
Yield, Compression Molded	11.0	MPa	
Break, Compression Molded	28.0	MPa	
Tensile Elongation (Break, Compression Molded)	790	%	ASTM D638
Flexural Modulus (Compression Molded)	310	MPa	ASTM D790
<b>Films</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Film Thickness - Tested	25	μm	
Secant Modulus			ASTM D882
1% Secant, MD : 25 μm, Blown Film	190	MPa	
1% Secant, TD : 25 μm, Blown Film	220	MPa	
Tensile Strength			ASTM D882
MD : Break, 25 μm, Blown Film	34.0	MPa	
TD : Break, 25 μm, Blown Film	26.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 μm, Blown Film	700	%	
TD : Break, 25 μm, Blown Film	900	%	
Dart Drop Impact (25 μm, Blown Film)	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm, Blown Film	100	g	
TD : 25 μm, Blown Film	350	g	
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (Compression Molded)	440	J/m	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	95.0	°C	ASTM D1525
Peak Melting Temperature	121	°C	ASTM D3418
<b>Optical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Gloss (45°, 25.0 μm, Blown Film)	50		ASTM D2457
Haze (25.0 μm, Blown Film)	13	%	ASTM D1003
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Melt Temperature	160 to 180	°C	
Die Temperature	170 to 190	°C	

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#### Recommended distributors for this material

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