

InnoPlus LL7410A

Linear Low Density Polyethylene
PTT Global Chemical Public Company Limited

Message:

InnoPlus LL7410A resin is a linear low density polyethylene with butene comonomers, without slip and antiblock. This grade offers the excellent machinability on conversion lines. Film extruded from InnoPlus LL7410A have high tensile strength, elongation, good toughness and outstanding puncture strength. It is available for tubular blown film processing. Besides, this grade can be used for blending with HDPE as well. InnoPlus LL7410A is recommended for producing the general purpose films, liners, heavy duty films, food packaging and agricultural films.

General Information			
Features	Additive Free		
	Butene Comonomer		
	Good Toughness		
	High Elongation		
	High Tensile Strength		
	Machinable		
	Puncture Resistant		
Uses	Agricultural Applications		
	Blending		
	Film		
	Food Packaging		
	Liners		
Forms	Pellets		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	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

Films	Nominal Value	Unit	Test Method
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)	100	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm, Blown Film	100	g	
TD : 25 μm, Blown Film	350	g	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	440	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ASTM D1525
Peak Melting Temperature	121	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	55		ASTM D2457
Haze (25.0 μm, Blown Film)	10	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 180	°C	
Die Temperature	170 to 190	°C	

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