

InnoPlus LL7420A

Linear Low Density Polyethylene
PTT Global Chemical Public Company Limited

Message:

InnoPlus LL7420A resin is a linear low density polyethylene with butene comonomers, without slip and antiblock. This grade offers an outstanding excellent draw down in both blown and cast film processing. Films extruded from InnoPlus LL7420A have high tensile, gloss and good toughness properties. It can be used for blending with other polyethylene types, such as HDPE and LDPE.
InnoPlus LL7420A is recommended for producing the stretch wrap films, liners, industrial bags, refuse sacks and garbage bags.

General Information			
Features	Butene comonomer		
	Highlight		
	High tensile strength		
	Good stripping		
	Good toughness		
	Compliance of Food Exposure		
	No additive		
Uses	Films		
	Lining		
	Bags		
	Mixing		
	Stretch winding		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Blow film		
	cast film		
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)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	10.0	MPa	ASTM D638
Fracture, molding	26.0	MPa	ASTM D638

Tensile Elongation (Break, Compression Molded)	900	%	ASTM D638
Flexural Modulus (Compression Molded)	290	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	195	MPa	ASTM D882
1% secant, TD: 25 μm, blown film	220	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 25 μm, blown film	31.0	MPa	ASTM D882
TD: Broken, 25 μm, blown film	23.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 μm, blown film	700	%	ASTM D882
TD: Broken, 25 μm, blown film	900	%	ASTM D882
Dart Drop Impact (25 μm, Blown Film)	85	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 μm, blown film	100	g	ASTM D1922
TD: 25 μm, blown film	320	g	ASTM D1922
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	390	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)	50		ASTM D2457
Haze (25.0 μm, Blown Film)	10	%	ASTM D1003
Extrusion instructions			
160 - 180 °C for extruder and 170 - 190 °C for die zone. (blown film)			
210 - 270 °C for extruder and 260 - 270 °C for die zone. (cast film)			

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