

InnoPlus LL7420D1

Linear Low Density Polyethylene
PTT Global Chemical Public Company Limited

Message:

InnoPlus LL7420D1 resin is a linear low density polyethylene with butene comonomers, with low content of slip and antiblock. This grade offers an outstanding excellent draw down in blown film processing. Films extruded from InnoPlus LL7420D1 have high tensile strength, gloss and good toughness properties. It can be used for blending with other polyethylene types, such as HDPE and LDPE.
InnoPlus LL7420D1 is recommended for producing the liners, industrial bags, refuse sacks and garbage bags.

General Information			
Additive	Antiblock		
	Slip		
Features	Antiblocking		
	Butene Comonomer		
	Food Contact Acceptable		
	Good Drawdown		
	Good Toughness		
	High Gloss		
	High Tensile Strength		
	Slip		
Uses	Bags		
	Blending		
	Film		
	Heavy-duty Bags		
	Liners		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	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, Compression Molded	10.0	MPa	

Break, Compression Molded	26.0	MPa	
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	
1% Secant, TD : 25 μm, Blown Film	250	MPa	
Tensile Strength			ASTM D882
MD : Break, 25 μm, Blown Film	31.0	MPa	
TD : Break, 25 μm, Blown Film	23.0	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)	85	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm, Blown Film	100	g	
TD : 25 μm, Blown Film	320	g	
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	95.0	°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)	16	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 180	°C	
Die Temperature	170 to 190	°C	

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