

Petrothene® LP510300

High Density Polyethylene Copolymer
LyondellBasell Industries

Message:

PETROTHENE LP510300 is a copolymer resin designed for blown film applications. This resin offers high stiffness, excellent appearance and bubble stability and good drawdown. LP510300 is recommended for merchandise bags, and multi-wall sack liners and barrier sheeting. It is also useful as a blend component for improved stiffness and machineability.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Drawdown		
	High Stiffness		
Uses	Bags		
	Blending		
	Film		
	Liners		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.33	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	ASTM E111
Secant Modulus			
1% Secant, MD : 51 µm	758	MPa	
1% Secant, TD : 51 µm	924	MPa	ASTM D882
Tensile Strength			
MD : Yield,51 µm	24.8	MPa	
TD : Yield,51 µm	28.3	MPa	
MD : Break, 51 µm	43.4	MPa	
TD : Break, 51 µm	31.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 51 µm	500	%	

TD : Break, 51 µm	670	%	
Dart Drop Impact (51 µm, Blown Film)	70	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm, Blown Film	31	g	
TD : 51 µm, Blown Film	1200	g	
Oxygen Transmission Rate (51 µm, Blown Film)	2400	cm ³ /m ² /24 hr	ASTM D3985
Water Vapor Transmission ¹	3.3	g/m ² /24 hr	ASTM F372
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	126	°C	ASTM D1525
NOTE			

1. 2 mil, Blown Film

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