

Petrothene® GS707061

Linear Low Density Polyethylene
LyondellBasell Industries

Message:

The PETROTHENE SELECT series of resins are pelletized, high performance hexene, linear low density polyethylenes for applications requiring superior strength and toughness. These products offer significant improvements in mechanical properties and excellent additive homogeneity without sacrificing processability. Applications include trash and can liners, commercial and industrial packaging, as well as consumer packaging. The PETROTHENE SELECT series resins offer enhanced film strength, drawdown, toughness and heat seal strength

General Information			
Additive	Medium Antiblock (12%)		
Features	Food Contact Acceptable		
	Good Drawdown		
	Good Heat Seal		
	Good Processability		
	Good Strength		
	Low Density		
Uses	Ultra High Toughness		
	Consumer Applications		
	Industrial Applications		
	Liners		
Agency Ratings	Packaging		
	FDA 21 CFR 177.1520		
	Pellets		
	Film Extrusion		
Forms	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 25 µm, Blown Film	193	MPa	
1% Secant, TD : 25 µm, Blown Film	200	MPa	ASTM D882
Tensile Strength			
MD : Break, 25 µm, Blown Film	58.6	MPa	
TD : Break, 25 µm, Blown Film	44.8	MPa	ASTM D882
Tensile Elongation			
MD : Break, 25 µm, Blown Film	530	%	

TD : Break, 25 µm,Blown Film	680	%	
Dart Drop Impact (25 µm, Blown Film)	750	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	350	g	
TD : 25 µm, Blown Film	580	g	
Extrusion	Nominal Value	Unit	
Melt Temperature	216	°C	

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