

Petrothene® GS710062

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 compared to conventional Hexene LLDPE materials. GS 710 exhibits superior processability compared to competitive High Performance Hexene LLDPE materials. 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%)		
	Medium Slip (1350 ppm)		
Features	Food Contact Acceptable		
	Good Drawdown		
	Good Heat Seal		
	Good Processability		
	Good Strength		
	Low Density		
	Ultra High Toughness		
Uses	Consumer Applications		
	Industrial Applications		
	Liners		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	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)	1.0	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	55.2	MPa	
TD : Break, 25 µm, Blown Film	41.4	MPa	

Tensile Elongation			ASTM D882
MD : Break, 25 µm,Blown Film	580	%	
TD : Break, 25 µm,Blown Film	720	%	
Dart Drop Impact (25 µm, Blown Film)	600	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	350	g	
TD : 25 µm, Blown Film	580	g	

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