

Petrothene® Select GS710060

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			
Features	hexene comonomer		
	Workability, good		
	Good stripping		
	Good strength		
	Good heat sealability		
	Good toughness		
	Compliance of Food Exposure		
Uses	Packaging		
	Lining		
	Industrial application		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
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	
secant modulus			ASTM D882
1% secant, MD: 25 µm	193	MPa	ASTM D882
1% secant, TD: 25 µm	200	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 25 µm	55.2	MPa	ASTM D882
TD: Break, 25 µm	41.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	580	%	ASTM D882
TD: Break, 25 µm	720	%	ASTM D882
Dart Drop Impact (25 µm, Blown Film)	600	g	ASTM D1709A

Elmendorf Tear Strength			ASTM D1922
MD : 25 μ m	350	g	ASTM D1922
TD : 25 μ m	580	g	ASTM D1922

Additional Information

Film properties taken from blown film produced on a blown film line equipped with an 8 in diameter die and 100 mil die gap, running at 150 lb/hr and 420°F melt temperature. Density of Base Resin, ASTM D1505: 0.915 g/cm³ Density of Compound, ASTM D1505: 0.924 g/cm³

Extrusion	Nominal Value	Unit
Melt Temperature	204 - 232	°C

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