

# Petrothene® Select GS906061

Linear Low Density Polyethylene

LyondellBasell Industries

## Message:

The Petrothene Select series of resins are high performance hexene, linear low density polyethylenes selected by customers for use in blown film applications that require superior strength and toughness. Petrothene Select GS906 has a melt index of 0.6 g/10 min which can contribute to films having very high dart impact as well as excellent melt strength during blown film fabrication. Typical applications include trash can liners, heavy duty bags, shipping sacks and industrial packaging.

General Information			
Additive	Processing aid Anti-caking agent (6500 ppm)		
Features	hexene comonomer Impact resistance, high Good strength Good melt strength Good toughness Compliance of Food Exposure		
Uses	Blown Film Packaging Films Lining Industrial application Heavy packing bag		
Agency Ratings	FDA 21 CFR 175.1520		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.917	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D638
1% secant, MD: 25 µm, blown film	186	MPa	ASTM D638
1% secant, TD: 25 µm, blown film	200	MPa	ASTM D638
Tensile Strength			ASTM D882
MD: Broken, 25 µm, blown film	65.5	MPa	ASTM D882
TD: Broken, 25 µm, blown film	48.3	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Broken, 25 µm, blown film	500	%	ASTM D882
TD: Broken, 25 µm, blown film	700	%	ASTM D882
Dart Drop Impact (25 µm, Blown Film)	650	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	450	g	ASTM D1922
TD: 25 µm, blown film	650	g	ASTM D1922

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

