

# Petrothene® L2560S

Low Density Polyethylene

LyondellBasell Industries

## Message:

PETROTHENE L 2560S is a fractional melt index LDPE resin that exhibits a good balance of strength, clarity and heat seal characteristics. L 2560S is formulated without slip but with a medium antiblock level. Typical applications include produce bags, shrink wrap, frozen food containers, bundling and diaper films.

General Information			
Additive	Moderate caking resistance		
Features	Good strength		
	Good heat sealability		
	Low liquidity		
	Definition, high		
	Compliance of Food Exposure		
	Moderate caking resistance		
Uses	Films		
	Bags		
	Container		
	Food container		
	Shrinkable film		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm³	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 D882
1% secant, MD: 32 µm, blown film	248	MPa	ASTM D882
1% secant, MD: 51 µm, blown film	228	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	290	MPa	ASTM D882
1% secant, TD: 51 µm, blown film	269	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 32 µm, blown film	11.0	MPa	ASTM D882
MD: Yield, 51 µm, blown film	11.0	MPa	ASTM D882
TD: Yield, 32 µm, blown film	11.7	MPa	ASTM D882
TD: Yield, 51 µm, blown film	11.7	MPa	ASTM D882

MD: Broken, 32 $\mu$ m, blown film	24.1	MPa	ASTM D882
MD: Broken, 51 $\mu$ m, blown film	20.0	MPa	ASTM D882
TD: Broken, 32 $\mu$ m, blown film	17.2	MPa	ASTM D882
TD: Broken, 51 $\mu$ m, blown film	17.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 $\mu$ m, blown film	120	%	ASTM D882
MD: Broken, 51 $\mu$ m, blown film	230	%	ASTM D882
TD: Broken, 32 $\mu$ m, blown film	500	%	ASTM D882
TD: Broken, 51 $\mu$ m, blown film	540	%	ASTM D882
Dart Drop Impact			ASTM D1709
32 $\mu$ m, blown film	80	g	ASTM D1709
51 $\mu$ m, blown film	120	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 32 $\mu$ m, blown film	150	g	ASTM D1922
MD: 51 $\mu$ m, blown film	450	g	ASTM D1922
TD: 32 $\mu$ m, blown film	150	g	ASTM D1922
TD: 51 $\mu$ m, blown film	300	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45 °, 31.8 $\mu$ m, blown film	60		ASTM D2457
45, 50.8 $\mu$ m, blown film	67		ASTM D2457
Haze			ASTM D1003
31.8 $\mu$ m, blown film	8.5	%	ASTM D1003
50.8 $\mu$ m, blown film	8.5	%	ASTM D1003
Additional Information			

Data obtained from films produced in a 2" commercially available extruder with a 4" die, 309°F Melt Temperature, 2:1 BUR, 0.025" die gap at 50 lb/hr.

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