

# Petrothene® NA338202

Low Density Polyethylene  
LyondellBasell Industries

Message:

Petrothene NA338202 is a LDPE homopolymer resin designed for household film and other applications that require high clarity and good stiffness combined with low COF.

General Information			
Additive	Anti-caking agent (3100 ppm)		
	Slip agent (2800 ppm)		
Features	Low friction coefficient		
	Rigid, good		
	Definition, high		
	Compliance of Food Exposure		
Uses	Films		
	cast film		
Agency Ratings	FDA 21 CFR 175.1520		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD (51 µm, Cast Film)	147	MPa	ASTM D638
Tensile Strength			ASTM D882
MD: yield, 51 µm, extruded film	8.76	MPa	ASTM D882
TD: yield, 51 µm, extruded film	8.69	MPa	ASTM D882
MD: fracture, 51 µm, extruded film	21.2	MPa	ASTM D882
TD: fracture, 51 µm, extruded film	15.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: fracture, 51 µm, extruded film	410	%	ASTM D882
TD: fracture, 51 µm, extruded film	590	%	ASTM D882
Dart Drop Impact (51 µm, Cast Film)	110	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 51 µm, cast film	470	g	ASTM D1922
TD: 51 µm, cast film	320	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method

Gloss (45°, 50.8 µm, Cast Film)	73		ASTM D2457
Haze (50.8 µm, Cast Film)	6.6	%	ASTM D1003

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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

