

Petrothene® NA334000

Low Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE NA 334-000 is a homopolymer resin specifically engineered for thin film applications. NA 334-000 is known for its consistency, exceptional drawdown and processability.

General Information			
Features	Homopolymer		
	Workability, good		
	Good stripping		
	Compliance of Food Exposure		
Uses	Films		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	
secant modulus			ASTM D882
1% secant, MD: 32 µm, blown film	138	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	159	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 32 µm, blown film	15.2	MPa	ASTM D882
TD: Yield, 32 µm, blown film	13.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 µm, blown film	300	%	ASTM D882
TD: Broken, 32 µm, blown film	450	%	ASTM D882
Dart Drop Impact (32 µm, Blown Film)	65	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 µm, Blown Film)	50		ASTM D2457
Haze (31.8 µm, Blown Film)	12	%	ASTM D1003
Additional Information			

Film data obtained from film produced on a 3½" (89 mm) blown film line, commercially available 8" (203 mm) die, 325°F (163°C) melt extrusion temperature, 2.2:1 BUR, 1.25 mil (32 micron) gauge.

Extrusion	Nominal Value	Unit
Melt Temperature	149 - 166	°C

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