

Petrothene® NA143063

Low Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE NA143 is a series of homopolymer resins for blown film. Applications include stiff liners. NA143 exhibits good processability and clarity.

General Information	
Additive	Anti-caking agent (1500 ppm) Sliding agent (750 ppm)
Features	Homopolymer Compliance of Food Exposure Moderate caking resistance Moderate smoothness
Uses	Films Lining
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Film extrusion Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 1.91 mm)	11.9	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	
secant modulus			ASTM E111
1% secant, MD: 32 µm, blown film	193	MPa	ASTM E111
1% secant, TD: 32 µm, blown film	221	MPa	ASTM E111
Tensile Strength			ASTM D882
MD: Yield, 32 µm, blown film	23.4	MPa	ASTM D882
TD: Yield, 32 µm, blown film	17.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 µm, blown film	300	%	ASTM D882

TD: Broken, 32 μm, blown film	500	%	ASTM D882
Dart Drop Impact (32 μm, Blown Film)	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 32 μm, blown film	380	g	ASTM D1922
TD: 32 μm, blown film	200	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	93.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 μm, Blown Film)	70		ASTM D2457
Haze (31.8 μm, Blown Film)	6.0	%	ASTM D1003
Additional Information			
Film data obtained from film produced on a 3½" (89 mm) blown film line, commercially available 8" (203 mm) die, 375°F (191°C) melt extrusion temperature, 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025" die gap at 130 lb/hr.			
NOTE			

1. Type 4, 510mm/min

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