

# Petrothene® NA983085

Low Density Polyethylene

LyondellBasell Industries

## Message:

Petrothene NA983085 is a low density homopolymer resin selected by customers for use in shrink packaging, bundling, pallet wrap and heavy-duty liner applications. Excellent bubble stability, melt strength, impact and shrinkage are key attributes of NA983985.

General Information	
Additive	Antiblock (4000 ppm)
Features	Antiblocking
	Food Contact Acceptable
	Good Impact Resistance
	Good Melt Strength
Uses	Film
	Liners
	Packaging
	Shrink Wrap
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blown Film
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density			ASTM D1505
-- <sup>1</sup>	0.920	g/cm <sup>3</sup>	
--	0.922	g/cm <sup>3</sup>	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	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	207	MPa	
1% Secant, TD : 32 µm, Blown Film	241	MPa	
Tensile Strength			ASTM D882
MD : Yield, 32 µm, Blown Film	20.7	MPa	
TD : Yield, 32 µm, Blown Film	19.3	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 µm, Blown Film	310	%	
TD : Break, 32 µm, Blown Film	430	%	

Dart Drop Impact (32 μm, Blown Film)	180	g	ASTM D1709
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NOTE
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1.	Base Resin
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