

# Petrothene® NA283245

Low Density Polyethylene  
LyondellBasell Industries

Message:

Petrothene NA283245 is a homopolymer resin that combines clarity with strength and stiffness. In addition, NA283245 exhibits good impact strength on both flat and creased film. NA283245 provides enhanced clarity and sparkle in thin packaging films, such as bread and bakery bags.

General Information			
Features	Rigid, good		
	Impact resistance, good		
	Good strength		
	Definition, high		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Bags		
	Food packaging		
Agency Ratings	FDA 21 CFR 175.1520		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.928	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D638
1% secant, MD: 25 µm, cast film	207	MPa	ASTM D638
1% secant, TD: 25 µm, cast film	234	MPa	ASTM D638
Tensile Strength			ASTM D882
MD: Yield, 25 µm, extruded film	8.96	MPa	ASTM D882
TD: Yield, 25 µm, extruded film	8.96	MPa	ASTM D882
MD: Broken, 25 µm, extruded film	19.3	MPa	ASTM D882
TD: Broken, 25 µm, extruded film	13.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, extruded film	320	%	ASTM D882
TD: Broken, 25 µm, extruded film	470	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, cast film	180	g	ASTM D1922
TD: 25 µm, cast film	240	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method

Gardner Gloss (45, 25.4 $\mu$ m, cast film)	82		ASTM D523
Haze (25.4 $\mu$ m, Cast Film)	4.8	%	ASTM D1003

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#### Recommended distributors for this material

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