

# Petrothene® NA285003

Medium Density Polyethylene

LyondellBasell Industries

## Message:

Petrothene NA285003 is a medium density polyethylene resin selected by customers for blown or cast film extrusion. Typical applications include overwrap film. This product exhibits good film optics and high stiffness.

General Information	
Features	Food Contact Acceptable
	High Stiffness
	Opticals
Uses	Cast Film
	Film
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blown Film
	Cast Film
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.930	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
Film Thickness - Tested	32	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 32 µm	262	MPa	
1% Secant, TD : 32 µm	296	MPa	
Tensile Strength			ASTM D882
MD : Yield,32 µm	30.3	MPa	
TD : Yield,32 µm	29.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 µm	500	%	
TD : Break, 32 µm	600	%	
Dart Drop Impact (32 µm)	60	g	ASTM D1709
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 µm)	65		ASTM D2457
Haze (31.8 µm)	7.0	%	ASTM D1003

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