

Petrothene® NA143

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA 143 is a series of homopolymer resins for blown film. Applications include stiff liners.

General Information			
Features	Food Contact Acceptable Homopolymer		
Uses	Film Liners		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blown Film Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.921	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	ASTM D882
Tensile Strength			
MD : Yield, 32 µm	23.4	MPa	
TD : Yield, 32 µm	17.2	MPa	ASTM D882
Tensile Elongation			
MD : Break, 32 µm	300	%	
TD : Break, 32 µm	500	%	ASTM D1709
Dart Drop Impact (32 µm)	90	g	
Elmendorf Tear Strength			
MD : 32 µm	380	g	ASTM D1922
TD : 32 µm	200	g	
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)	70		ASTM D2457
Haze (31.8 μm)	6.0	%	ASTM D1003
NOTE			
1.	Type IV, 510 mm/min		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

