

Petrothene® NA951

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA 951 is a series of homopolymer resins specially designed for industrial and consumer packaging and liner and bag applications. NA 951 has an excellent balance of processability, toughness and drawdown.

General Information			
Features	Food Contact Acceptable		
	Good Drawdown		
	Good Processability		
	Good Toughness		
	Homopolymer		
Uses	Bags		
	Film		
	Industrial Applications		
	Liners		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (1.91 mm)	13.6	MPa	ASTM D638
Tensile Elongation ² (Break, 1.91 mm)	600	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	ASTM D882
Secant Modulus			
MD	197	MPa	
TD	228	MPa	ASTM D882
Tensile Strength			
MD : Yield,32 µm	24.8	MPa	
TD : Yield,32 µm	17.2	MPa	ASTM D882
Tensile Elongation			
MD : Break, 32 µm	250	%	
TD : Break, 32 µm	520	%	

Dart Drop Impact (32 μm)	100	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 32 μm	320	g	
TD : 32 μm	100	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ASTM D1525
NOTE			
1.	Type IV, 510 mm/min		
2.	Type IV, 510 mm/min		

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