

Petrothene® NA957

Low Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE NA 957 is a series of highly uniform resins specifically developed for the multi-wall bag market. NA 957 produces films with exceptional drawdown, outstanding toughness, high dart drop impact strength and excellent heat sealing characteristics. Other applications include general packaging, industrial liners, food containers and trash bags.

General Information			
Features	Food Contact Acceptable		
	Good Drawdown		
	Good Heat Seal		
	Good Toughness		
	High Impact Resistance		
Uses	Bags		
	Containers		
	Film		
	Food Containers		
	Liners		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	42		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	9.65	MPa	
Break	12.4	MPa	
Tensile Elongation			ASTM D638
Yield	100	%	
Break	650	%	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	
Secant Modulus			ASTM D882

1% Secant, MD : 32 μm	169	MPa	
1% Secant, TD : 32 μm	200	MPa	
Tensile Strength			ASTM D882
MD : Yield,32 μm	22.8	MPa	
TD : Yield,32 μm	15.2	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 μm	220	%	
TD : Break, 32 μm	500	%	
Dart Drop Impact (32 μm)	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 32 μm	340	g	
TD : 32 μm	90	g	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	85.0	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	154 to 177	°C	

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