

Petrothene® NA942000

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA942 is a series of resins selected by customers for heavy duty film applications, such as bags used to package fertilizer, peat moss, decorative stone and agricultural and construction materials. NA942 exhibits excellent impact properties and puncture resistance.

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Puncture Resistant		
Uses	Agricultural Applications		
	Bags		
	Construction Applications		
	Film		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blown Film		
	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)	0.18	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F0)	168	hr	ASTM D1693
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	17.9	MPa	
Tensile Elongation			ASTM D638
Yield	100	%	
Break	750	%	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Tensile Strength - MD (Yield, 51 µm, Blown Film)	20.7	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD : Break, 51 μm,Blown Film	300	%	
TD : Break, 51 μm,Blown Film	450	%	
Dart Drop Impact (51 μm, Blown Film)	220	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-75.0	°C	ASTM D746
Extrusion	Nominal Value	Unit	
Melt Temperature	166 to 221	°C	

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Recommended distributors for this material

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

