

Petrothene® NA373244

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA373 is a series of homopolymer resins selected by customers for use in household film and other applications that require high clarity and good impact strength combined with low COF.

General Information			
Additive	Antiblock (6000 ppm)		
	Slip (1600 ppm)		
Features	Antiblocking		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	High Clarity		
	Homopolymer		
	Low Friction		
	Slip		
Uses	Cast Film		
	Film		
Agency Ratings	FDA 21 CFR 177.1350		
Forms	Pellets		
Processing Method	Blown Film		
	Cast Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 32 µm, Blown Film	159	MPa	
1% Secant, MD : 32 µm, Cast Film	208	MPa	
1% Secant, TD : 32 µm, Blown Film	172	MPa	
1% Secant, TD : 32 µm, Cast Film	197	MPa	
Tensile Strength			ASTM D882

MD : Yield,32 μm, Blown Film	10.9	MPa	
MD : Yield,32 μm, Cast Film	9.38	MPa	
TD : Yield,32 μm, Blown Film	10.7	MPa	
TD : Yield,32 μm, Cast Film	9.31	MPa	
MD : Break, 32 μm,Blown Film	18.6	MPa	
MD : Break, 32 μm,Cast Film	29.1	MPa	
TD : Break, 32 μm,Blown Film	17.2	MPa	
TD : Break, 32 μm,Cast Film	17.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 μm,Blown Film	200	%	
MD : Break, 32 μm,Cast Film	230	%	
TD : Break, 32 μm,Blown Film	500	%	
TD : Break, 32 μm,Cast Film	610	%	
Dart Drop Impact			ASTM D1709
32 μm, Blown Film	65	g	
32 μm, Cast Film	110	g	
Elmendorf Tear Strength			ASTM D1922
MD : 32 μm, Blown Film	270	g	
MD : 32 μm, Cast Film	300	g	
TD : 32 μm, Blown Film	170	g	
TD : 32 μm, Cast Film	160	g	
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 31.8 μm, Blown Film	70		
45°, 31.8 μm, Cast Film	77		
Haze			ASTM D1003
31.8 μm, Blown Film	5.4	%	
31.8 μm, Cast Film	3.4	%	

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