

Petrothene® NA960000

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA 960 is a series of resins designed for a wide variety of industrial film applications where high impact strength and excellent drawdown are needed. NA 960 exhibits good uniformity, ease of processing and good tensile strength.

General Information			
Features	Impact resistance, high		
	Workability, good		
	Good stripping		
	Compliance of Food Exposure		
Uses	Films		
	Industrial application		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (1.91 mm)	14.5	MPa	ASTM D638
Tensile Elongation ² (Break, 1.91 mm)	660	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	
secant modulus			ASTM E111
MD: Blow film	200	MPa	ASTM E111
TD: Blow film	234	MPa	ASTM E111
Tensile Strength			ASTM D882
MD: Yield, 32 µm, blown film	24.1	MPa	ASTM D882
TD: Yield, 32 µm, blown film	16.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 µm, blown film	200	%	ASTM D882
TD: Broken, 32 µm, blown film	500	%	ASTM D882
Dart Drop Impact (32 µm, Blown Film)	120	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 32 µm, blown film	300	g	ASTM D1922
TD: 32 µm, blown film	130	g	ASTM D1922

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ASTM D1525
Additional Information			
Film data obtained from film produced in a 3 1/2" (89 mm) blown film line, commercially available 8" (203 mm) die, 350°F (177°C) melt extrusion temperature, 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025" die gap at 150 lb/hr.			
NOTE			
1.	Type 4, 510mm/min		
2.	Type 4, 510mm/min		

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