Petrothene® NA960083

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. NA 960-083 contains medium levels of antiblock.

General Information			
Additive	Anti-caking agent (4000 ppm)		
Features	Anti-caking property 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

Recommended distributors for this material

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