Petrothene® NA963083

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA963083 is selected by customers for use in a wide variety of industrial film applications where high impact strength and excellent drawdown are needed. NA963083 exhibits uniformity, ease of processing and good tensile strength.

General Information	
Additive	Anti-caking agent (4000 ppm)
Features	Anti-caking property Impact resistance, high Workability, good Good stripping Good strength Compliance of Food Exposure
Uses	Films Industrial application
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Film extrusion Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.919 - 0.921	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	46		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	10.7	MPa	ASTM D638
Fracture	11.4	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	100	%	ASTM D638
Fracture	700	%	ASTM D638
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	32	µm	
secant modulus			ASTM D882
1% secant, MD: 32 µm	179	MPa	ASTM D882

1% secant, TD: 32 µm	221	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 32 µm	23.4	MPa	ASTM D882
TD: Yield, 32 µm	16.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 µm	160	%	ASTM D882
TD: Broken, 32 µm	480	%	ASTM D882
Dart Drop Impact (32 µm)	130	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 32 µm	300	g	ASTM D1922
TD : 32 µm	180	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	90.0	°C	ASTM D1525
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	154 - 177	°C	

Extrusion instructions

Generally recommended extrusion conditions include a melt temperature range of 310°-350°F (155°-177°C) and a blow-up ratio range of 1.8-2.5:1. Drawdown to gauges below 1.0 mils (<25 microns) is possible at commercial rates when proper techniques are used.

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

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