Petrothene® NA980000

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA980 is a low density homopolymer resin selected by customers for use in shrink packaging, bundling, pallet wrap and heavy-duty liner applications. Excellent bubble stability, melt strength, impact and shrinkage are key attributes of NA980.

General Information	
Features	Homopolymer Impact resistance, good Good melt strength Compliance of Food Exposure
Uses	Packaging Films Lining Shrinkable film
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Film extrusion Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	45		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	9.79	MPa	ASTM D638
Fracture	17.9	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	100	%	ASTM D638
Fracture	700	%	ASTM D638
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	51	µm	
secant modulus			ASTM D882
1% secant, MD: 51 µm	207	MPa	ASTM D882
1% secant, TD: 51 µm	241	MPa	ASTM D882

Tensile Strength			ASTM D882
MD: Yield, 51 µm	20.7	MPa	ASTM D882
TD: Yield, 51 µm	19.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	310	%	ASTM D882
TD: Fracture, 51 µm	430	%	ASTM D882
Dart Drop Impact (51 µm)	180	g	ASTM D1709
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	93.0	°C	ASTM D1525
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	166 - 221	°C	

Extrusion instructions

Optimum properties are obtained at melt temperatures between 330°-430°F (165°-221°C) and a blow-up ratio between 1.7-3.0:1, using proper techniques and equipment.

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