Petrothene® NA980

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA 980 is designed specifically for the shrink packaging industry and has a balance of properties over a wide range of blow-up ratios. NA 980 is also recommended for bundling, pallet wrap and heavy-duty liner where clarity is important. Excellent bubble stability, melt strength, impact and shrinkage make NA 980 an outstanding polymer for all these demanding applications.

General Information						
Features	Impact resistance, good					
	Good melt strength	Good melt strength				
	Definition, high	Definition, high				
	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			
		MPa				

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	

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.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

