Petrothene® NA952094

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA 952 is a series of homopolymer resins especially designed for industrial and consumer packaging, and liner and bag applications. NA 952 has an excellent balance of processability, toughness and drawdown.

General Information			
Additive	Antiblock (4500 ppm) Slip (500 ppm)		
Features	Antiblocking Food Contact Acceptable Good Drawdown Good Processability Good Toughness Homopolymer Slip		
Uses	Bags Film Industrial Applications Liners Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.919	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (1.91 mm)	12.4	MPa	ASTM D638
Tensile Elongation [2] (Break, 1.91 mm)	650	%	ASTM D638
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	32	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 32 µm	183	MPa	
1% Secant, TD : 32 µm	221	MPa	
Tensile Strength			ASTM D882

MD : Yield,32 μm	22.1	MPa	
TD : Yield,32 μm	15.9	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 μm	200	%	
TD : Break, 32 μm	500	%	
Dart Drop Impact (32 μm)	110	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 32 μm	350	g	
TD : 32 μm	70	g	

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ASTM D1525

NOTE	
1.	Type IV, 510 mm/min
2.	Type IV, 510 mm/min

Recommended distributors for this material

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