

Technical Data Sheet



Petrothene NA814000

Low Density Polyethylene

Product Description

Petrothene NA814000 is a low density homopolymer resin selected by customers for a wide variety of blow molding applications. This resin exhibits excellent gloss, an excellent balance of physical properties and good processability.

Regulatory Status

For regulatory compliance information, see Petrothene NA814000 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Bottles and Vials; Bottles For Consumer Goods; Bottles for Industrial Use; Caps & Closures; Clear Containers; Opaque Containers
Market	Rigid Packaging
Processing Method	Extrusion Blow Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	1.3	g/10 min	1.3	g/10 min	ASTM D1238
Density, (23 °C)	0.919	g/cm³	0.919	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	33000	psi	228	MPa	ASTM D790
Tensile Strength at Break	1700	psi	11.7	MPa	ASTM D638
Tensile Elongation at Break	>600	%	>600	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	48		48		ASTM D2240
Thermal					
Vicat Softening Temperature	194	°F	90	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	104	°F	40	°C	ASTM D648



Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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