# **Technical Data Sheet**

# Petrothene LR734046

lyondellbasell

High Density Polyethylene

## **Product Description**

*Petrothene* LR734046 is a high density polyethylene resin that exhibits good stiffness and environmental stress crack resistance. This product contains stearate as a core rod release for the injection-blow molding process. Typical applications include bottles for household chemicals, food products, and personal care products.

### **Regulatory Status**

For regulatory compliance information, see *Petrothene* LR734046 <u>Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).</u>

Status Commercial: Active
Availability North America
Application Bottles and Vials
Market Rigid Packaging
Processing Method Injection Blow Molding
Attribute Excellent Processability

	Nominal	English	Nominal		
Typical Properties	Value	Units	Value	Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.38	g/10 min	0.38	g/10 min	ASTM D1238
Density, (23 °C)	0.953	g/cm³	0.953	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	176000	psi	1210	MPa	ASTM D790
Tensile Strength at Yield	4000	psi	27.6	MPa	ASTM D638
Tensile Elongation at Break	>500	%	>500	%	ASTM D638
Environmental Stress Crack Resistance, F₅₀ (100% Igepal®, Cond B)	25	hr	25	hr	ASTM D1693
Impact					
Tensile Impact Strength	131	ft-lb/in²	275	kJ/m²	ASTM D1822
Hardness					
Shore Hardness, (Shore D)	67		67		ASTM D2240
Thermal					
Vicat Softening Temperature	261	°F	127	°C	ASTM D1525
Low Temperature Brittleness, F₅₀	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	167	°F	75	°C	ASTM D648
Additive					
Stearate	Medium		Medium		LYB Method

As core rod release agent

#### **Notes**

Igepal® is a registered trademark of Rhodia.

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 <a href="http://www.lyb.com/">http://www.lyb.com/</a>.

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