



## Technical Data Sheet

### *Petrothene* LR732002

High Density Polyethylene

#### Product Description

Petrothene LR732002 exhibits exceptional processability when used in a variety of different blowmolding processes. Finished articles made from this resin show an excellent balance of stiffness and environmental stress crack resistance. Typical applications include containers for bleach, detergent, household chemicals and personal care products.

<b>Application</b>	Bottles For Consumer Goods; Bottles for Industrial Use; General Sheet Extrusion
<b>Market</b>	Rigid Packaging
<b>Processing Method</b>	Extrusion Blow Molding; Sheet and Profile Extrusion
<b>Attribute</b>	Excellent Processability

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	0.30	g/10 min	0.30	g/10 min	ASTM D1238
Density, (23 °C)	0.953	g/cm <sup>3</sup>	0.953	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Flexural Modulus, (1% Secant)	181000	psi	1250	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, F <sub>50</sub> (100% Igepal®, Cond B)	30	hr	30	hr	ASTM D1693
<b>Impact</b>					
Tensile Impact Strength	128	ft-lb/in <sup>2</sup>	269	kJ/m <sup>2</sup>	ASTM D1822
<b>Hardness</b>					
Shore Hardness, (Shore D)	67		67		ASTM D2240
<b>Thermal</b>					
Vicat Softening Temperature	259	°F	126	°C	ASTM D1525
Low Temperature Brittleness, F <sub>50</sub>	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	167	°F	75	°C	ASTM D648

## 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 <http://www.lyb.com/>.

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