

## Technical Data Sheet

### *Petrothene* LT573502



High Density Polyethylene

#### Product Description

*Petrothene* LT573502 exhibits an enhanced balance of stiffness and environmental stress crack resistance. Typical applications include bottles for motor oil, personal care products, and household chemicals.

#### Regulatory Status

For regulatory compliance information, see *Petrothene* LT573502 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<b>Application</b>	Bottles For Consumer Goods
<b>Market</b>	Rigid Packaging
<b>Processing Method</b>	Extrusion Blow Molding
<b>Attribute</b>	High Stiffness

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	0.35	g/10 min	0.35	g/10 min	ASTM D1238
Density, (23 °C)	0.957	g/cm <sup>3</sup>	0.957	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Flexural Modulus, (1% Secant)	200200	psi	1380	MPa	ASTM D790
Tensile Strength at Yield	4210	psi	29	MPa	ASTM D638
Tensile Elongation at Break	1400	%	1400	%	ASTM D638
Environmental Stress Crack Resistance, F <sub>50</sub>	55	hr	55	hr	ASTM D1693
<b>Impact</b>					
Tensile Impact Strength	107	ft-lb/in <sup>2</sup>	225	kJ/m <sup>2</sup>	ASTM D1822
<b>Thermal</b>					
Vicat Softening Point	261	°F	127	°C	ASTM D1525
Low Temperature Brittleness, F <sub>50</sub>	<-105	°F	<-76	°C	ASTM D746

## Notes

ESCR performed using 100% Igepal® CO-630, 50°C, where; Igepal® is a registered trademark of Rhodia.

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/>.

© LyondellBasell Industries Holdings, B.V. 2018

## Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

## Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.