

## **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.

**Application** Bottles For Consumer Goods

Market Rigid Packaging

Processing Method Extrusion Blow Molding

Attribute High Stiffness

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical	, aldo	<u> </u>	, and	<u> </u>	T OOL WOULD
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/cm³	0.957	g/cm³	ASTM D1505
Mechanical					
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, F50	55	hr	55	hr	ASTM D1693
Impact					
Tensile Impact Strength	107	ft-lb/in²	225	kJ/m²	ASTM D1822
Thermal					
Vicat Softening Point	261	°F	127	°C	ASTM D1525
Low Temperature Brittleness, F₅₀	<-105	°F	<-76	°C	ASTM D746

### **Notes**

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

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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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