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).

Status	Commercial: Active
Availability	North America
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					
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, F_{50}	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, F_{50}	<-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 http://www.lyb.com/.

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Manufacturer website: https://www.lyondellbasell.com/en/