Petrothene

T523501

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lyondellbasell

High Density Polyethylene Blow Molding Grade Melt Index: 0.35 Density: 0.952

Applications

Petrothene LT523501 exhibits an enhanced balance of stiffness and environmental stress crack resistance. Typical applications include bottles for bleach, detergents, household chemicals, foodstuffs and pharmaceuticals.

Regulatory
StatusPetrothene LT523501 meets the requirements of the Food and Drug Administration regulation
21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or
components of articles intended for use in contact with food..." Specific limitations or
conditions of use may apply. Contact your Equistar product safety representative for more
information.

Processing Techniques While specific recommendations for processing LT523501 can only be made when the processing conditions, equipment and end use are known, typical stock temperatures range from 340 to 410°F.

		Nominal		ASTM
Typical	Property	Value	Units	Test Method
Properties	Melt Index	0.35	g/10 min	D1238
	Density	0.952	g/cc	D1505
	Tensile Strength @ Yield	3,900	psi	D638
	Tensile Strength @ Break	2,830	, psi	D638
	Elongation @ Break	1,100	%	D638
	Flexural Modulus (1% Secant)	174,200	psi	D790
	Low Temperature Brittleness, F ₅₀	<-76	°C	D746
	Heat Deflection Temperature @ 66 psi	67	°C	D648
	Vicat Softening Point	124	°C	D1525
	Hardness, Shore D	68		D2240
	Environmental Stress Crack Resistance, F_{50}	140	hrs	D1693 ¹
	¹ 100% Igepal® CO-630, 50°C [®] Igenal is a registered trademark of Rhône-Poulenc Co			

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These are typical values not to be construed as specification limits.