

Petrothene

LT543521

High Density Polyethylene

Blow Molding Grade

Melt Index: 0.35 Density: 0.954



Applications

Petrothene LT543521 exhibits an enhanced balance of stiffness and environmental stress crack resistance. Typical applications include bottles for bleach, detergents, household chemicals, foodstuffs and pharmaceuticals. This product is formulated with synthetic antistat.

Regulatory Status

Petrothene LT543521 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 LT543521 can only be made when the processing conditions, equipment and end use are known, typical stock temperatures range from 340 to 410°F.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.35	g/10 min	D1238
Density	0.954	g/cc	D1505
Tensile Strength @ Yield	4,110	psi	D638
Tensile Strength @ Break	2,860	psi	D638
Elongation @ Break	1,100	%	D638
Flexural Modulus (1% Secant)	190,400	psi	D790
Low Temperature Brittleness, F ₅₀	<-76	°C	D746
Heat Deflection Temperature @ 66 psi	68	°C	D648
Vicat Softening Point	126	°C	D1525
Hardness, Shore D	69		D2240
Environmental Stress Crack Resistance, F ₅₀	60	hrs	D1693 ¹

¹ 100% Igepal® CO-630, 50°C

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