

Petrothene

LB5602

High Density Polyethylene

Blow Molding Grade

Melt Index 0.30 Density 0.952

Applications

The *Petrothene* LB5602 series of polyethylene resins exhibits excellent environmental stress crack resistance and stiffness. Typical applications include bottles for household chemicals such as bleach, cleaners and detergents.

Regulatory Status

The base resin LB5602 meets the requirements of the Food and Drug Administration, regulation 21 CFR 1 77.1 520. 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 sales representative for more information about the use of specific products for specific applications.

Processing Techniques

Specific recommendations for processing LB5602 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.30	g/10 min	D 1238
Density	0.952	g/cc	D 1505
Tensile Strength @ Break	3,960	psi	D 638
Elongation @ Break	>600	%	D 638
Flexural Modulus	185,000	psi	D 790
Tensile Impact	120	ft-lb/in.	D 1822
Low Temperature Brittleness, F ₅₀	<-76	°C	D 746
Heat Deflection Temperature @ 66 psi	75	°C	D 648
Vicat Softening Point	123	°C	D 1525
Hardness, Shore D	66		D 2240
Environmental Stress Crack Resistance, F ₅₀	35	hrs	D 1693 ¹
Product	LB560200	LB560201	LB560210
Antistat	None	None	High
Stearate	None	None	None

¹ 100% Igepal® CO-630, 50°C

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