

Petrothene®

LM600500

High Density Polyethylene

Blow Molding Grade

Melt Index 0.35 Density 0.960+

Applications

PETROTHENE LM600500 resin is especially designed for water, milk and juice bottles. LM600500 exhibits excellent rigidity and good processability.

Regulatory Status

LM600500 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 sales representative for more information.

Processing Techniques

Specific recommendations for processing LM600500 can be made only 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	0.35	g/10 min	D 1238
Density	0.960+	g/cc	D 1505
Tensile Strength @ Break	4,400	psi	D 638
Elongation @ Break	>600	%	D 638
Flexural Modulus	220,000	psi	D 790
Tensile Impact	100	ft-lb/in.	D 1822
Low Temperature Brittleness, F ₅₀	<-76	°C	D 746
Heat Deflection Temperature @ 66 psi	78	°C	D 648
Vicat Softening Point	125	°C	D 1525
Hardness, Shore D	68		D 2240

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Lyondell Chemical Company
1221 McKinney, Suite 700
P.O. Box 2583
Houston, Texas 77252-2583
800.615.8999
<http://www.Lyondell.com>