

Petrothene®

LM 6007-00

High Density Polyethylene
Blow Molding Grade
Melt Index 0.80 Density 0.960+

Applications

PETROTHENE LM 6007-00 resin exhibits very low taste and odor characteristics as well as good rigidity. Typical applications include water, milk and juice bottles.

Certification

LM 6007-00 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 LM 6007-00 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Physical Properties

| Property | Nominal Value | Units | ASTM Test Method |
|----------------------------------------------|---------------|-------------------|------------------|
| Melt Index | 0.80 | g/10 min | D 1238 |
| Density | 0.960 + | g/cm ³ | D 1505 |
| Tensile Strength @ Yield | 4,600 | psi | D 638 |
| Elongation @ Break | >400 | % | D 638 |
| Flexural Modulus | 225,000 | 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 | 82 | °C | D 648 |
| Vicat Softening Point | 129 | °C | D 1525 |
| Hardness, Shore D | 69 | | D 2240 |

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