

Petrothene LH 7350

High Density Polyethylene

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Blow Molding Grade
Density 0.953 Melt Index 0.35

Applications

The PETROTHENE LH 7350 series of polyethylene resins exhibits an excellent balance of stiffness and environmental stress crack resistance. Typical applications include bottles for bleach, detergents and household chemicals.

Certification

The base resin LH 7350 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 about the use of specific products for specific applications.

Processing Techniques

Specific recommendations for processing LH 7350 can only be made when the processing conditions, equipment and end use are known.

Physical Properties

| Property | Nominal Value | Units | ASTM Test Method |
|--|---------------|-----------|------------------|
| Melt Index | 0.35 | g/10 min | D 1238 |
| Density | 0.953 | g/cc | D 1505 |
| Tensile Strength @ Yield | 3.900 | psi | D 638 |
| Elongation @ Break | 900 | % | 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 | 74 | °C | D 648 |
| Vicat Softening Point | 128 | °C | D 1525 |
| Hardness, Shore D | 66 | | D 2240 |
| Environmental Stress Crack Resistance, F ₅₀ | 50 | hrs | D 1693 |
| | >500 | hrs | D 2561 |

| Product | LH 7350-00 | LH 7350-10 |
|----------|------------|------------|
| Antistat | None | High |

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