

Osterlene® HD0954

High Density Polyethylene

Osterman & Company

Message:

HD0954 is a general purpose HDPE injection molding resin with superior stiffness which allows for improved stack strength and is good for part thinwalling.

HD0954 has low viscosity for exceptional processability, shorter cycle times and energy savings.

This resin has low warpage for improved part quality and reliability. It has exceptional physical properties which provides impact resistance for demanding applications.

Additives: Antioxidant

Osterlene HD0954 meets the requirements of the Food and Drug Administration, 21 CFR Section 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 may apply. Contact your Osterman sales representative for more information.

| General Information | | | |
|----------------------------------------------------------------------------|---------------------|-------------------|-------------|
| Additive | Antioxidation | | |
| Features | Low warpage | | |
| | Rigidity, high | | |
| | Antioxidation | | |
| | Good strength | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Processing Method | Compression molding | | |
| | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity ¹ | 0.954 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg) | 9.0 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded) | < 10.0 | hr | ASTM D1693B |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D, Compression Molded) | 66 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ³ | | | ASTM D638 |
| Yield, molding | 28.5 | MPa | ASTM D638 |
| Yield, injection molding | 22.3 | MPa | ASTM D638 |
| Fracture, molding | 22.0 | MPa | ASTM D638 |
| Fracture, injection molding | 16.0 | MPa | ASTM D638 |
| Tensile Elongation ⁴ | | | ASTM D638 |
| Yield, molding | 8.0 | % | ASTM D638 |
| Yield, injection molding | 9.0 | % | ASTM D638 |

| Fracture, molding | 1200 | % | ASTM D638 |
|------------------------------------------|---------------|------|-------------|
| Fracture, injection molding | 650 | % | ASTM D638 |
| Flexural Modulus - 1% Secant | | | ASTM D790 |
| Molding | 1230 | MPa | ASTM D790 |
| Injection Molding | 960 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature ⁵ | 128 | °C | ASTM D1525 |

NOTE

1. Compression Molded
2. Compression Molded
3. 50 mm/min
4. 50 mm/min
5. Compression Molded

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