

CERTENE™ HI-1752

High Density Polyethylene
Muehlstein

Message:

HI-1752 is a certified prime copolymer that features easy processability, good impact strength, good resistance to low temperature, glossy surfaces, and good dimensional stability. HI-1752 typical applications include housewares, toys, and other general purpose molded applications. HI-1752 complies with U.S. FDA 21 CFR 177.1520 © 3.2a regulation.

| General Information | | | |
|---|-----------------------------------|-------------------|-------------|
| Features | Good dimensional stability | | |
| | Highlight | | |
| | High density | | |
| | Copolymer | | |
| | Impact resistance, good | | |
| | Workability, good | | |
| | Low temperature impact resistance | | |
| Uses | Household goods | | |
| | General | | |
| | Toys | | |
| Agency Ratings | FDA 21 CFR 177.1520(c) 3.2a | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.952 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 17 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50) | 2.80 | hr | ASTM D1693 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield) | 22.1 | MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 280 | % | ASTM D638 |
| Flexural Modulus - 2% Secant | 814 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Tensile Impact Strength | 273 | kJ/m ² | ASTM D1822 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | -105 | °C | ASTM D746 |
| Vicat Softening Temperature | 254 | °C | ASTM D1525 |
| Additional Information | | | |
| Test specimens from compression molded plaque according to ASTM D 1928 Procedure C. | | | |

NOTE

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|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |

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