

CERTENE™ HGB-0760

High Density Polyethylene
Muehlstein

Message:

HGB-0760 is a certified prime Gas Phase blow molding homopolymer designed for production of containers for packaging of non-aggressive chemicals. HGB-0760 features low to medium swell, excellent processability in conventional continuous extrusion equipment, good ESCR, good Impact strength, high Stiffness, improved Barrier, and low Odor and Taste. Applications include small to medium size thin wall bottle for milk, water and juices, wide mouth containers for body powders, and extrusion of sheet and profiles. HGB-0760 processing temperature is 140 to 165°C, with mold 10 to 30°C.

| General Information | | | |
|---|--|-------------------|-------------|
| Features | Rigid, good | | |
| | High ESCR (Stress Cracking Resistance) | | |
| | High density | | |
| | Homopolymer | | |
| | Impact resistance, high | | |
| | Workability, good | | |
| | The smell is low to none | | |
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| Uses | Barrier resin | | |
| | | | |
| | Packaging | | |
| | Thin wall container | | |
| | Juice bottle | | |
| | Sheet | | |
| | Container | | |
| | Profile | | |
| Forms | Particle | | |
| Processing Method | Blow molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.960 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.70 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (50°C, 100% Igepal, Compression Molded, F50) | 15.0 | hr | ASTM D1693 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield, Compression Molded) | 31.0 | MPa | ASTM D638 |
| Tensile Elongation ² (Break, Compression Molded) | 710 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ (Compression Molded) | 1450 | MPa | ASTM D790 |

| Impact | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|-------------|
| Tensile Impact Strength (Compression Molded) | 189 | kJ/m ² | ASTM D1822 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 80.0 | °C | ASTM D648 |
| Brittleness Temperature | -75.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 128 | °C | ASTM D1525 |
| Additional Information | | | |
| This Specimen was compression molded and was tested according to ASTM D1928 Procedure C. | | | |
| Injection | Nominal Value | Unit | |
| Mold Temperature | 10.0 - 30.0 | °C | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 140 - 165 | °C | |
| NOTE | | | |
| 1. | 50 mm/min | | |
| 2. | 50 mm/min | | |
| 3. | 1.3 mm/min | | |

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