

Braskem PE HS5502

High Density Polyethylene

Braskem

Message:

HS5502 is a high density polyethylene, copolymer. Offers good processability and bottles produced have excellent stiffness.

Application:

Blow Molded Small Volume: Food, lubricant oils and pharmaceutical packing; Toys; Braskem does not recommend the use of HS5502 for the production of films.

Process:

Blow Molding;

Injection Blow Molding.

| General Information | | | |
|---|---------------------------|-------------------|-------------|
| Features | Super rigidity | | |
| | High density | | |
| | Copolymer | | |
| | Workability, good | | |
| Uses | Packaging | | |
| | Bottle | | |
| | Toys | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Processing Method | Blow molding | | |
| | Compression molding | | |
| | Injection blowing molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.955 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | | | ASTM D1238 |
| 190°C/2.16 kg | 0.35 | g/10 min | ASTM D1238 |
| 190°C/21.6 kg | 32 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance ¹ | | | ASTM D1693 |
| 2.00mm, 10% Igepal, molded, F50 | 10.0 | hr | ASTM D1693 |
| 2.00mm, 100% Igepal, molded, F50 | 20.0 | hr | ASTM D1693 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break, Compression Molded) | 30.0 | MPa | ASTM D638 |
| Flexural Modulus - 1% Secant (Compression Molded) | 1350 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |

| Unnotched Izod Impact (Compression Molded) | 150 | J/m | ASTM D256 |
|---|-----------------------|------|-------------|
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded) | 69.0 | °C | ASTM D648 |
| Injection instructions | | | |
| Recommended Blow Molding Conditions: Feeding Zone: 185°C Barrel: 190°C Die: 195°C Mold Temperature: 5°C to 25°C Parison: 200°C | | | |
| NOTE | | | |
| 1. | 0.3mm notched-plaques | | |

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