

Braskem PE IG 58

High Density Polyethylene

Braskem

Message:

IG58 is a High Density Polyethylene, narrow molecular weight butene-1 copolymer, produced by solution process, for injection molding applications. It offers high stiffness, impact strength and high output (fast cycle).
Application:
Thin-wall articles, housewares, ice cream packaging, food and general purpose containers.

| General Information | | | |
|---|--------------------------------------|-------------------|-------------|
| Features | Butene Comonomer | | |
| | Copolymer | | |
| | Fast Molding Cycle | | |
| | Food Contact Acceptable | | |
| | Good Impact Resistance | | |
| | High Stiffness | | |
| | Narrow Molecular Weight Distribution | | |
| Uses | Containers | | |
| | Food Containers | | |
| | Food Packaging | | |
| | Household Goods | | |
| | Thin-walled Parts | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.956 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 50 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D, Compression Molded) | 58 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield, Compression Molded | 24.0 | MPa | |
| Break, Compression Molded | 11.0 | MPa | |
| Flexural Modulus - 1% Secant (Compression Molded) | 1190 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |

| Notched Izod Impact (Compression Molded) | 30 | J/m | ASTM D256 |
|--|------------------|------|-------------------------|
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded) | 71.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 125 | °C | ASTM D1525 ¹ |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 160 to 230 | °C | |
| NOTE | | | |
| 1. | Loading 1 (10 N) | | |

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