

SureSpec HS-080

High Impact Polystyrene

Genesis Polymers

Message:

HS-080 is a certified prime resin developed for injection molded applications requiring high Strength coupled with superior Gloss properties. HS-080 has superior processability, exceptional consistency of melt viscosity that combined reduce injection pressure, shorten cycle time and minimize internal molding stresses, resulting in moldings free of Warpage and outstanding Impact strength. HS-080 complies with FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food articles.

| General Information | | | |
|---|-------------------------|-------------------|-------------|
| Features | Food Contact Acceptable | | |
| | Good Processability | | |
| | High Gloss | | |
| | High Impact Resistance | | |
| | High Strength | | |
| | Low Warpage | | |
| Agency Ratings | FDA 21 CFR 177.1640 | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.05 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 8.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 60 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2280 | MPa | ASTM D638 |
| Tensile Strength ¹ (Yield) | 20.7 | MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 50 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ | 2340 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm, Injection Molded) | 130 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 91.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 96.0 | °C | ASTM D1525 |
| NOTE | | | |
| 1. | 51 mm/min | | |
| 2. | 51 mm/min | | |
| 3. | 1.3 mm/min | | |

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