**JPHIPSI**

High Impact Polystyrene

**Typical Material Properties**

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| General |  |  |
| Material Status | Commercial: Active |  |
| Availability | North America |  |
| Features | Food Contact Acceptable | Good Impact Resistance |
|  | High Flow |  |
| Forms | Pellets |  |
| Processing Method | Injection Molding |  |

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| Physical Properties | Nominal Values | Test Method |
| Specific Gravity | 1.05  | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 7.5 g/10 min | ASTM D1238 |

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| Mechanical Properties |  |  |
| Tensile Strength1 (Yield) | 4270 psi | ASTM D638 |
| Tensile Elongation1 (Yield) | 45 % | ASTM D638 |
| Flexural Modulus (0.126 in) | 320000 psi | ASTM D790 |
| Flexural Strength (Yield, 0.126 in) | 6400 psi | ASTM D790 |

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| Impact |  |  |
| Notched Izod Impact (0.126 in) | 1.7 ft·lb/in | ASTM D256 |

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| Thermal |  |  |
| Deflection Temperature Under Load (264 psi, Unannealed)) |  |  |
| RTI Elec (0.0630 in) |  |   |
| RTI Imp (0.0630 in) |  |  |
| RTI Str (0.0630 in) |  |  |

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| Flammability |  |  |
| Deflection Temperature Under Load (264 psi, Unannealed) | 181 °F | ASTM D648 |
| Vicat Softening Temperature | 216 °F | ASTM D15252 |

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| Notes |  |  |
| 12.0 in/min |  |  |
| 2Rate B (120°C/h |  |  |