**Inj-07 ABS**

General purpose injections molding grade

**Typical Material Properties**

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| General |  |  |
| Material Status | Commercial: Active |  |
| Availability | North America |  |
| Features | General Purpose | High Impact Resistance |
|  | Medium Gloss |  |
| Uses | Appliances | Toys |
|  | Consumer Applications | Housings |
| Appearance | Natural Color | Colors Available |
| Processing Method | Injection Molding |  |

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| Physical Properties | Nominal Values | Test Method |
| Specific Gravity | 1.04 | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)  | 1.8 g/10 min | ASTM D1238  |
| Molding Shrinkage - Flow | 3.0E-3 to 6.0E-3 in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.30 % | ASTM D570 |

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| Hardness |  |  |
| Rockwell Hardness (R-Scale) | 105 | ASTM D785 |

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| Mechanical Properties |  | ASTM D638 |
| Tensile Strength |  |  |
| Yield | 9670 psi |  |
| Break | 6380 psi |  |
| Tensile Elongation (Break) | 83 % | ASTM D638 |
| Flexural Modulus | 315000 psi | ASTM D790 |

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| Impact |  |  |
| Notched Izod Impact | 6.9 ft·lb/in | ASTM D256 |

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| Thermal |  |  |
| Deflection Temperature Under Load (264 psi, Unannealed) | 176 °F | ASTM D648 |
| Vicat Softening Temperature | 208 °F | ASTM D1525 |

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| Flammability |  |  |
| Flame Rating (0.125 in) | HB  |  UL 94 |

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| Injection | Nominal Values  |  |
| Processing (Melt) Temp | 376 to 444 °F |  |
| Mold Temperature | 100 to 174 °F |  |

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| Notes |
| 1These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier. |