**Ex-04 ABS**

Rigid, Flame Rated, Impact Resistant ABS

**Typical Material Properties**

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| General |  |  |
| Material Status | Commercial: Active |  |
| Availability | North America |  |
| Features | Good Impact Resistance | Medium Gloss |
|  | Medium Rigidity | Flame Rated |
|  | Impact Resistant | Rigid |
| Appearance | Natural Color | White |
| Forms | Pellets |  |
| Processing Method | Extrusion | Thermoforming |

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| Physical Properties | Nominal Values | Test Method |
| Specific Gravity |  1.04 |  ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)  | 2.4 g/10 min |   |
| Molding Shrinkage - Flow | 5.5E-3 in/in |  |

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| Hardness |  |  |
| Rockwell Hardness (R-Scale) | 102 |  |

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| Mechanical Properties |  |  |
| Tensile Modulus | 339000 psi | ASTM D638 |
| Tensile Strength |  | ASTM D638 |
| Yield | 6290 psi |  |
| Break | 5110 psi |  |
| Tensile Elongation (Yield) | 2.6 % | ASTM D638 |

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| Impact |  |  |
| Charpy Notched Impact Strength |  | ISO 179 |
| -- | 1.9 ft·lb/in² |  |
| -- 2 | 5.7 ft·lb/in² |  |
| Charpy Unnotched Impact Strength 2 | No Break   | ISO 179 |
| Notched Izod Impact | 8.0 ft·lb/in | ASTM D256 |

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| Thermal |  |  |
| Deflection Temperature Under Load (264 psi, Annealed) | 210 °F | ASTM D648 |
| Vicat Softening Temperature | 226 °F |   |
| CLTE - Flow (68°F) | 3.9E-5 in/in/°F | ISO 11359-2 |

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| Flammability |  |  |
| Flame Rating (0.0579 in) | HB  | UL 94 |

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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. |
| 2at Low Temperature |