**Ex-03 ABS**

Medium-gloss, medium-impact extrusion grade ABS

**Typical Material Properties**

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| General |  |  |
| Material Status | Commercial: Active |  |
| Availability | North America |  |
| Features | Good Colorability | Medium Impact Resistance |
|  | Medium Gloss | Medium Rigidity |
| Processing Method | Extrusion | Thermoforming |

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| Physical Properties | Nominal Values | Test Method |
| Specific Gravity | 1.05 | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/10.0 kg) | 5.7 g/10 min | ASTM D1238 |

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| Hardness |  |  |
| Rockwell Hardness (R-Scale) | 111 | ASTM D785 |

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| Mechanical Properties |  |  |
| Tensile Modulus | 247000 psi | ASTM D638 |
| Tensile Strength at Yield | 5220 psi | ASTM D638 |
| Flexural Modulus | 276000 psi | ASTM D790 |
| Flexural Strength at Yield | 8600 psi | ASTM D790 |

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| Impact |  |  |
| Notched Izod Impact (73 °F, 0.125 in) |  | ASTM D256 |
| 0.125 in | 3.9 ft·lb/in |  |
| -40°F, 0.125 in | 1.4 ft·lb/in |  |
| Instrumented Dart Impact 2, 3 (0.0984 in, Total) | 274 in·lb | ASTM D3763 |

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| Thermal |  |  |
| Deflection Temperature Under Load (264 psi, Unannealed)) | 194 °F |  |
| RTI Elec (0.0630 in) | 140 °F | UL 746 |
| RTI Imp (0.0630 in) | 140 °F | UL 746 |
| RTI Str (0.0630 in) | 140 °F | UL 746 |

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| Flammability |  |  |
| Flame Rating (0.0591 in) | HB | UL 94 |

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| Optical |  |  |
| Transmittance | 0.0 % |  |

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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. |
| 211.1 ft/sec |
| 33 in. clamp .5 in. dart |