**JPPCABS10**

PCABS 10% Glass Fiber

**Typical Material Properties**

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| General |  |  |
| Material Status | Commercial: Active |  |
| Availability | North America |  |
| Filler / Reinforcement | Glass Fiber, 10% Filler by Weight |  |
| Forms | Pellets |  |
| Processing Method | Injection Molding |  |

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| Physical Properties | Nominal Values | Test Method |
| Specific Gravity | 1.18 | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg) | 2.6 g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 4.0E-3 in/in | ASTM D955 |
| Water Absorption |  | ASTM D570 |
| 73°F, 24 hr | 0.15 % |  |
| Equilibrium, 73°F, 50% RH | 0.32 % |  |

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| Hardness |  |  |
| Rockwell Hardness (R-Scale) | 120 | ASTM D785 |

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| Mechanical Properties |  |  |
| Tensile Strength1 |  | ASTM D638 |
| Yield | 7070 psi |  |
| Break | 7310 psi |  |
| Tensile Elongation1 (Break) | 4.0 % | ASTM D638 |
| Flexural Modulus | 530000 psi | ASTM D790 |
| Flexural Strength (Yield) | 14300 psi | ASTM D790 |

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| Impact |  |  |
| Notched Izod Impact2 |  | ASTM D256 |
| -20°F, 0.125 in | 1.5 ft·lb/in |  |
| 73°F, 0.125 in | 4.3 ft·lb/in |  |
| Instrumented Dart Impact3 |  | ASTM D3763 |
| -20°F, 0.125 in, Total Energy | 50.0 in·lb |  |
| 73°F, 0.125 in, Peak Energy | 110 in·lb |  |

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| Thermal |  |  |
| Deflection Temperature Under Load |  | ASTM D648 |
| 264 psi, Unannealed, 0.125 in | 250 °F |  |
| 264 psi, Annealed, 0.125 in | 260 °F |  |
| CLTE - Flow (-40 to 180°F) | 3.2E-5 in/in/°F | ASTM D696 |

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| Notes |  |  |
| 1Type I, 2.0 in/min | | |
| 210 mil Notch Depth | | |
| 311.1 ft/sec | | |