**JPAH**

Acetal (POM) Homopolymer

**Typical Material Properties**

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| General |  |  |
| Material Status | Commercial: Active |  |
| Availability | North America |  |
| Additive | PTFE Lubricant (20%) |  |
| Features | Good Wear Resistance | Low Friction |
|  | High Viscosity | Lubricated |
| Uses | Bushings | Engineering Parts |
|  | Cast Film | Sheet |
|  | Tubing | Wire & Cable Applications |
| Appearance | Brown |  |
| Forms | Pellets |  |
| Processing Method | Cast Film | Injection Molding |
|  | Extrusion | Profile Extrusion |
|  | Sheet Extrusion |  |

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| Physical Properties | Nominal Values | Test Method |
| Specific Gravity | 1.53 | ASTM D792 |
| Water Absorption |   | ASTM D570 |
| 73°F, 24 hr | 0.20 % |   |
| Saturation, 73°F | 0.72 % |   |
| Equilibrium, 73°F, 50% RH | 0.18 % |   |

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| Mechanical Properties |  |  |
| Tensile Modulus 1 (73°F) | 422000 psi | ASTM D638 |
| Tensile Strength 1 (73°F) | 7250 psi | ASTM D638 |
| Tensile Elongation 1 (Break, 73°F) | 11 % | ASTM D638 |
| Flexural Modulus (73°F) | 393000 psi | ASTM D790 |

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| Impact |  |  |
| Notched Izod Impact (73°F) | 0.58 ft·lb/in | ASTM D256 |
| Unnotched Izod Impact (73°F) | 9.2 ft·lb/in | ASTM D256 |

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| Thermal |  |  |
| Deflection Temperature Under Load |    | ASTM D648 |
| 66 psi, Unannealed | 325 °F |   |
| 264 psi, Unannealed | 203 °F |   |
| Melting Temperature | 352 °F | DSC |
| CLTE |    | ASTM E831 |
| Flow : 73 to 130°F | 5.8E-5 in/in/°F |   |
| Transverse : 73 to 130°F | 5.6E-5 in/in/°F |   |
| RTI Elec |    | UL 746 |
| 0.0591 in | 221 °F |   |
| 0.118 in | 221 °F |   |
| RTI Imp |    | UL 746 |
| 0.0591 in | 185 °F |   |
| 0.118 in | 185 °F |   |
| RTI Str |    | UL 746 |
| 0.0591 in | 194 °F |   |
| 0.118 in | 194 °F |  |

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| Flammability |  |  |
| Flame Rating |    | UL 94 |
| 0.0591 in | HB  |   |
| 0.118 in | HB  |   |

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| Injection | Nominal Values |  |
| Suggested Max Moisture | 0.20 % |  |
| Processing (Melt) Temp | 410 to 428 °F |  |
| Mold Temperature | 176 to 212 °F |  |
| Notes |  |  |
| 0.20 in/min |  |  |