**JPTPUPE**

TPE with superior resilience, low temperature properties, excellent hydrolytic stability

**Typical Material Properties**

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| General |  |  |
| Material Status | Commercial: Active |  |
| Availability | North America |  |
| Forms | Pellets |  |
| Processing Method | Blow Molding | Extrusion |
|  | Injection Molding |  |

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| Physical Properties | Nominal Values | Test Method |
| Specific Gravity | 1.14  | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/8.7 kg) | 24 g/10 min | ASTM D1238 |
| Molding Shrinkage |    | ASTM D955 |
| Flow : 0.0630 in | 5.0E-3 to 7.0E-3 in/in |   |
| Across Flow : 0.0630 in | 0.0 to 6.0E-3 in/in |   |

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| Hardness |  |  |
| Durometer Hardness |    | ASTM D2240 |
| Shore A | 88  |   |
| Shore D | 48  |   |

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| Mechanical Properties |  |  |
| Taber Abrasion Resistance (1000 Cycles, 1000 g, H-22 Wheel) | 5.00 mg | ASTM D1044 |

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| Elastomers |  |  |
| Tensile Stress |    | ASTM D412 |
| 50% Strain | 800 psi |   |
| 100% Strain | 1000 psi |   |
| 300% Strain | 1750 psi |   |
| Tensile Strength (Break) | 4650 psi | ASTM D412 |
| Tensile Elongation (Break) | 560 % | ASTM D412 |
| Tear Strength1 | 470 lbf/in | ASTM D624 |
| Compression Set (77°F, 22 hr) | 25 % | ASTM D395 |

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| Thermal |  |  |
| Glass Transition Temperature | -36.0 °F | DSC |
| Vicat Softening Temperature | 153 °F | ASTM D1525 |
| CLTE - Flow  | 9.4E-5 in/in/°F | ASTM D696 |

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| Injection | Nominal Value |  |
| Drying Temperature | 180 to 200 °F |   |
| Drying Time | 2.0 to 4.0 hr |   |
| Suggested Max Moisture | 0.020 % |   |
| Processing (Melt) Temp | 370 to 400 °F |   |
| Mold Temperature | 60.0 to 140 °F |   |
| Injection Pressure | 6000 to 15000 psi |   |
| Back Pressure | 0.00 to 200 psi |   |
| Screw Speed | 50 to 75 rpm |   |
| Clamp Tonnage | 3.0 to 5.0 tons/in² |   |
| Screw L/D Ratio | 18.0:1.0  |   |
| Screw Compression Ratio | 2.0:1.0 to 3.5:1.0 |  |

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| Notes |  |  |
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