PP Material

# PP 400

## HIGHLIGHTS

- High chemical resistance
- Great elasticity and toughness
- High electrical and fatigue resistance
- Excellent recyclability

## APPLICATIONS

- Automotive applications
- Lifestyle applications
- Ideal for living hinges
- Textile industry applications

## TYPICAL PHYSICAL PROPERTIES

| PROPERTY | TEST METHOD | IMPERIAL | METRIC |
|---|---|---|---|
| Color/Appearance | Visual | White/Opaque | White/Opaque |
| Apparent Density Test (ADT) | ASTM D1895 | 0.0111 lb/in^3 | 0.31 g/cc |
| PSD D10-D90 (D50) | Laser Diffraction | | 40µ-100µ (80µ) |
| Sintered Density | ASTM D792 | 0.0303 lb/in^3 | 0.84 - 0.88 g/cc |
| Melt Viscosity (Virgin) | ASTM D1238 | 4-5 g/10min | 4-5 g/10min |
| Tensile Strength at Break (XY) | ASTM D638 | 3,100 psi | 21.4 MPa |
| Tensile Strength at Yield (XY) | ASTM D638 | 3,200 psi | 22 MPa |
| Tensile Modulus (XY) | ASTM D638 | 151,000 psi | 1,040 MPa |
| Elongation at Break (XY) | ASTM D638 | 50% | 50% |
| Elongation at Yield (XY) | ASTM D638 | 26% | 26% |
| Melting Point | ASTM D3418 | 300.2 Deg F | 149 Deg C |

The material properties provided herein are for reference purposes only. Actual values may vary significantly as they are dramatically affected by part geometry and process parameters. Material specifications are subject to change without notice.

alm

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