

# Asahi Kasei TENAC™ 4050

Excellent balance of mechanical properties, low friction and wear characteristics.  
Applications: Automotive parts, electrical & electronic parts, industrial parts.  
Information provided by Asahi Kasei Corp.

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	Asahi Kasei
Melt Flow	7.0 g/10 min	7.0 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	76.0 MPa	11000 psi	50% RH; ISO 527
Elongation at Break	30 %	30 %	50% RH; ISO 527
Tensile Modulus	3.30 GPa	479 ksi	50% RH; ISO 527
Flexural Modulus	3.00 GPa	435 ksi	50% RH; ISO 178
Charpy Impact, Notched	1.10 J/cm <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	100 μm/m-°C	55.6 μin/in-°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ISO 75

Flammability, UL94

HB @Thickness 0.750 mm HB @Thickness 0.0295 in