

Asahi Kasei TENAC™ 5010

General purpose grade characterized by balanced flowability and mechanical properties.
Information provided by Asahi Kasei Corp.

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	Asahi Kasei
Melt Flow	22 g/10 min	22 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	72.0 MPa	10400 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	3.10 GPa	450 ksi	50% RH; ISO 178
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	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)	105 °C	221 °F	ISO 75

Flammability, UL94

HB
@Thickness 1.50 mm

HB
@Thickness 0.0591 in