

# Asahi Kasei TENAC™ 5050

Standard-flow grade with high crystallization rate for higher productivity.  
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 - 0.021 cm/cm	0.018 - 0.021 in/in	Asahi Kasei
Melt Flow	21 g/10 min	21 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	73.0 MPa	10600 psi	50% RH; ISO 527
Elongation at Break	25 %	25 %	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	0.700 J/cm <sup>2</sup>	3.33 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)	105 °C	221 °F	ISO 75
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

HB @Thickness 0.810 mm	HB @Thickness 0.0319 in
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