

Asahi Kasei Thermofil N-40MF-0350 40% Mineral Filled, Heat Stabilized

Categories: [Polymer](#); [Thermoplastic](#); [Nylon](#); [Nylon 6](#); [Nylon 6, 40% Mineral Filled](#)

Material Notes: Information provided by Asahi Thermofil

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	87.6 MPa	12700 psi	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Strength	148 MPa	21500 psi	ASTM D790
Flexural Modulus	5.38 GPa	780 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.4 J/cm	27.0 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear	43.2 $\mu\text{m/m}\cdot^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	24.0 $\mu\text{in/in}\cdot^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	199 $^\circ\text{C}$	390 $^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 $^\circ\text{C}$	260 $^\circ\text{F}$	ASTM D648
Flammability, UL94	HB	HB	0.0591 in thickness

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.