Technical Data Sheet

Thermylene® 3D P66G73(EXPERIMENT)

Glass filled Polypropylene

PP

Version 1.0

June, 2024

Material Property

DESCRIPTION

This compound is a next generation glass filled polypropylene (PP) filament designed to provide superior dimensional accuracy, high impact, and high moisture resistance for use in Fused **Filament** Fabrication (FFF).

Recommended Print Settings

Parameter	Range	UNIT
Nozzle Temperature	250~295	℃
Bed Temperature	70~80	℃
Printing Speed	30~60	mm/sec

MECHANICAL PROPERTIES*1	VALUE	UNIT	TEST STANDARD
Tensile Strength	48	MPa	ISO 527
Flexural Strength	75	MPa	ISO 178
Flexural Modulus	4650	MPa	ISO 178
Charpy Notched	20	kJ/m^2	ISO 179

THERMAL PROPERTIES*2	VALUE	UNIT	TEST STANDARD
Deflection Temperature at 1.8 MPa	128	°C	ISO 75-2

*1,*2 Printing direction for Test specimen is XY direction.

Always review the SDS prior to using any of our products. The Safety Data Sheet for this product is available either by contacting Asahi Kasei Plastics NA Inc. or by visiting www.akplastics.com/3dp/. This technical data sheet is a summary of known information at the time of publication. The data in the physical properties table were obtained in our company by applying the prescribed test methods to test specimens made with a 3D printer. The data contained herein are preliminary and may be subject to revision. The data in the physical properties table vary depending on the model of 3D printer used and the modeling conditions. It is the responsibility of the customer to independently determine the suitability of a particular material for the intended use. Asahi Kasei Plastics NA Inc. makes no warranties, express or implied, concerning the suitability or fitness of its products for any particular use or accepts any liability in connection with this information. Asahi Kasei Plastics NA Inc. products does not be used for 3D printing items that include and are similar to: objects with sharp tips, objects that come in contact with people's mouths, children's toys, objects that come in contact with water, and tableware and objects that are weapon such as firearms and swords. For additional information, general guidelines, safe handling, processing and drying protocols please check out our processing guides (online link) or call (800) 444-4408.