

PP

Polypropylene

Polypropylene is widely used for automotive and other industrial applications. It is chemically resistant while being almost completely waterproof. In addition, black polypropylene is widely regarded for its superior UV resistance.

Mechanical Properties	Standard	Value	Unit
Ultimate Tensile Strength	ISO 527	12.8	MPa
Tensile Modulus			MPa
Elongation at Break	ISO 527	716	%
Flexural Modulus			MPa
Hardness Shore	Standard	Value	Unit
Durometer Hardness	ISO 868	Shore D55	

Thermal Properties	Standard	Value	Unit
Vicat Softening Temperature	ISO 306	115	°C
Physical Properties	Standard	Value	Unit
Density	ISO 1183	0.89	g/cm ³
Melt Flow Rate	ISO 1133	20.0	g/10min
Certifications and Tests	Standard	Value	Unit
Flammability (UL 94)			
USP Class VI Certified			

Characteristics

- Very good heat resistance
- Chemically resistant
- Nearly waterproof
- Tear resistant
- High UV Resistance

Applications

- Food packaging
- Medical applications
- IT equipment
- Applications that require softness and heat resistance
- Living hinges
- Automotive

Considerations

- Because polypropylene is prone to warping, use Wolfbite ULTRA Bed Adhesive™ to bond polypropylene plastic parts to the build plate to allow printing without lifting and to enable smooth release of objects after printing.
- Keep material away from heat, flames, or ignition sources.

Printing Skill & Experience: Beginner Intermediate Advanced Expert

- To help adhesion, increase line count on skirt (min: 4).
- Use heated enclosure to control warping & adhesion.

Printer Compatibility

<input type="checkbox"/> 3ntr A2v4	<input type="checkbox"/> 3ntr A4v4	<input checked="" type="checkbox"/> EVO-T	<input checked="" type="checkbox"/> EVO22-T
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Available colors from [Airwolf 3D](#): White