

ULTRAPRINT PRODUCTION

PAP10 High-precision Application Resin

PAP10 offers excellent fine structure printability and good impact strength. It features long-term aging resistance, maintaining stable size, good mechanical performance, and color for up to 8 years of indoor use. It is ideal for end-use miniatures, small-scale replicas, and intricate parts.



0.1 mm smallest pillar diameter*



0.06 mm smallest convex detail*



Good impact strength



Resistant to long-term aging

Color

Ash Grey

Black

Specifications

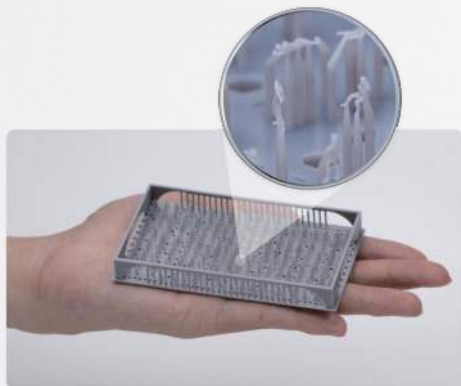
1000g/Bottle

*Test data for PAP10 Black color resin.

Basic Performance¹

	Property	Standard	Results (Ash Grey)	Results (Black)	Unit
Toughness	Impact Strength (Notched)	ASTM D256	36	31	J/m
	Elongation at Break	ASTM D638	12	12	%
	Work of Fracture	ISO 20795.1	3050	2370	J/m ²
Stiffness	Tensile Modulus	ASTM D638	1750	1750	MPa
	Flexural Modulus	ASTM D790	1920	2490	MPa
Strength	Tensile Strength	ASTM D638	54	55	MPa
	Flexural Strength	ASTM D790	93	94	MPa
Thermal Resistance	Heat Deflection Temperature @0.455 MPa	ASTM D648	58 (136.4)	58 (136.4)	°C (°F)
Others	Hardness	ASTM D2240	83	78	Shore D
	Water Sorption	ASTM D570	1	1	%
	Viscosity	ASTM D4212	385	500	mPa · s
Additional Passed Tests	UV Light Aging Test ²	ASTM G154	600	600	h
	Thermal Accelerated Aging Test ³	YY/T 0681.1	1600	1600	h
	Damp Heat Test	IEC 60068-2-78	✓	✓	/

Exceptional Results



¹ Data from HeyGears Lab. The material results are the average values from testing, with a deviation of $\pm 10\%$.

² Equivalent to 8 years of indoor use or 1 year of outdoor use, the material's properties degrade by less than 30%, with a non-significant color change ($\Delta E < 2$) and a dimensional deviation of ± 0.1 mm.

³ Equivalent to 1 years of outdoor use, the material's properties degrade by less than 30%, with a non-significant color change ($\Delta E < 2$) and a dimensional deviation of ± 0.1 mm.

*Special thanks to the fantastic model designers: Great Grimoire, Lost Kingdom Miniatures, and 奶酪法师.

Sample Request

