HeyGears

ULTRAPRINT MODELING

PAU10 General Purpose Modeling Resin (ABS-like)

PAU10 is a resin with properties close to ABS, featuring high impact resistance, and it is not prone to breaking.

It offers an optimal balance of strong mechanical properties, high dimensional accuracy, and stable color with long-term use, making it ideal for diverse end-products and industrial uses like screws, parts, and casings.

- ABS-like performance
- High toughness
- High stability
- ±0.05 mm printed part tolerance

Color

Grey

Specifications

1000g/Bottle

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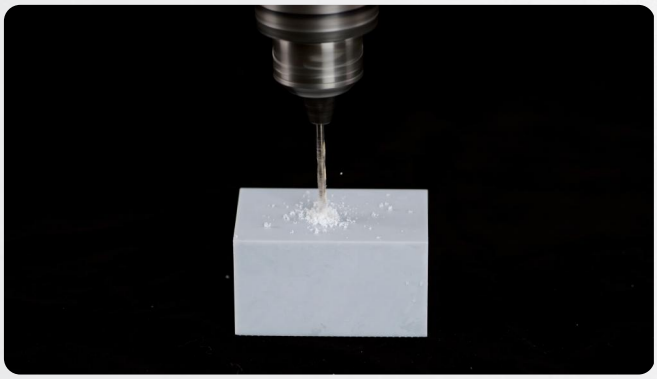
Basic Performance[1]

	Property	Standard	Results	Unit
Toughness	Impact Strength (Notched)	ASTM D256	27	J/m
	Elongation at Break	ASTM D638	23	%
	Work of Fracture	ISO 20795.1	8240	J/m^2
Stiffness	Tensile Modulus	ASTM D638	1700	MPa
	Flexural Modulus	ASTM D790	1700	MPa
Strength	Tensile Strength	ASTM D638	45	MPa
	Flexural Strength	ASTM D790	72	MPa
Thermal Resistance	Heat Deflection Temperature @0.455 MPa	ASTM D648	62 (143.6)	℃ (℉)
Others	Hardness	ASTM D2240	81	Shore D
	Water Sorption	ASTM D570	0.8	%
	Viscosity	ASTM D4212	745	mPa·s
Additional Passed Tests	UV Light Aging Test[2]	ASTM G154	600	h
	Thermal Accelerated Aging Test[3]	YY/T 0681.1	1600	h
	Damp Heat Test	IEC 60068-2-78	√	/
	Temperature Change Test	GB/T 2423.22	√	/
	Color Fastness Test	ISO 105-E04	√	/

Exceptional Results



Sample Request

[1] Data from HeyGears Lab. The material results are the average values from testing, with a deviation of ±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 ($\triangle E < 2$) 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 ($\triangle E < 2$) and a dimensional deviation of ±0.1 mm.