HeyGears

ULTRAPRINT

R3000G Rigid-Tough Engineering Grey Resin

UltraPrint R3000G is a high-performance engineering resin with excellent mechanical properties, offering a flexural strength of up to 122 MPa and a notched impact strength of 34 J/m. It combines high printing accuracy with excellent dimensional stability. Printed parts feature a high-quality surface finish with a matte appearance, making them suitable for visual validation and model presentation without additional sanding or painting. The resin also offers excellent heat and damp heat resistance, making it ideal for prototyping, manufacturing aids, display models, and low-volume end-use parts.



- High Accuracy
- Excellent Dimensional Stability
- Balanced Strength and Toughness
- Creep Resistance
- Heat Resistance
- Excellent Surface Finish

Color

Grey

Specification

1000 g/Bottle
2000 g/Bottle

*Models created by Penk Chen, Pinwei Xinlong Company.

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Basic Performance[1]

	Property	Standard	Result	Unit
Toughness	Impact Strength(Notched)	ASTM D256	34	J/m
	Work of Fracture	ISO 20795	3339	J/m^2
	Elongation at Break	ASTM D638	15	%
Stiffness	Flexural Modulus	ASTM D790	3050	MPa
Strength	Tensile Strength	ASTM D638	75	MPa
	Flexural Strength	ASTM D790	122	MPa
Thermal Resistance	Heat Deflection Temperature @0.455Mpa	ASTM D648	82 (179.6)	℃ (℉)
Others	Hardness	ASTM D256	85D	Shore D
	Water Sorption	ASTM D792	1299	mPa·s
	Viscosity	ASTM D570	0.78	%
Additional Passed Tests	Damp Heat Test	GB/T 2423.3	√	/

Exceptional Results



High Accuracy & High-quality Surface Finish

Sample Request

[1]Data from HeyGears Lab. The material results are the average values from testing, with a deviation of +10%.