HeyGears

ULTRAPRINT MOLDING

PAH270 Heat Resistant Molding Resin

With a Heat Deflection Temperature of 270 °C, PAH270 is the most heat-resistant resin in the Reflex series. Featuring a flexural modulus of 7,240 MPa, printed parts made from this material can resist deformation under heavy loads. It is ideal for high-temperature injection molds, jigs, and fixtures.

- High Stiffness
- For High-temperature Industrial Applications
- Scratch Resistance

Color

White

Specification

1000 g/Bottle
2000 g/Bottle

*Models created by HeyGears, otto3d, IanHHelgeson.

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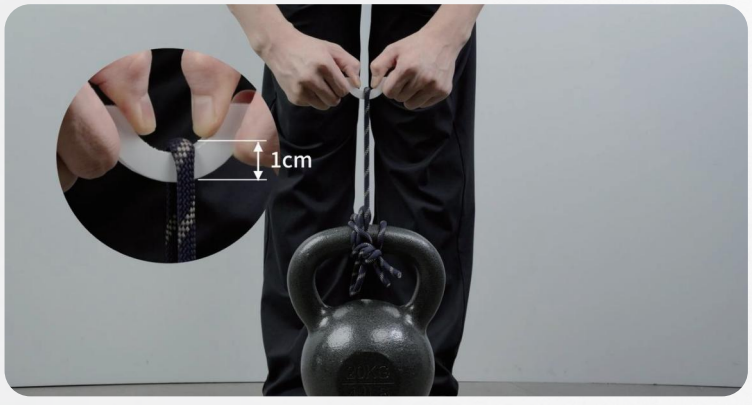
Basic Performance[1]

	Property	Standard	Results	Unit
Thermal Resistance	Heat Deflection Temperature @0.455 MPa	ASTM D648	270 (518)	℃ (℉)
Stiffness	Flexural Modulus	ASTM D790	7240	MPa
Strength	Flexural Strength	ASTM D790	101	MPa
	Tensile Strength	ASTM D638	65	MPa
Toughness	Impact Strength (Notched)	ASTM D256	13	J/m
	Elongation at Break	ASTM D638	4	%
Others	Hardness	ASTM D2240	94	Shore D
	Viscosity	ASTM D4212	1265	mPa·s
	Water Sorption	ASTM D570	0.9	%
Additional Passed Tests	UV Light Aging Test[2]	ASTM G154	200	h

Exceptional Results



Resistant to Deformation Under High Load

Sample Request

[1] Data from HeyGears Lab. The material results are the average values from testing, with a deviation of ±10%.
[2] Equivalent to 3 years of indoor use, the material's properties degrade by less than 30%, with a non-significant color change (△E < 2) and a dimensional deviation of ±0.1 mm.
*PAH270 has a high density of 1.38–1.7 g/cm³ (at 25 ℃), this means 1000 g of material takes up less volume, so the container may not appear full. This is a normal condition.