

ULTRAPRINT **PRODUCTION**

PAWR10 Wear-resistant Application Resin

PAWR10 is a wear-resistant resin with high impact resistance. It boasts a surface hardness of 2H, ensuring exceptional scratch resistance. It offers long-term resistance to yellowing and a smooth surface. This resin is suitable for Ball-Jointed Dolls, consumer electronics accessories, and gears.



Wear resistant



Anti-yellowing





High surface quality



Easy to paint

Color

Creamy 

Cream Yellow 

Specifications

1000g/Bottle

Basic Performance¹

	Property	Standard	Results	Unit
/	Film Hardness by Pencil Test	GB/T 6739	2H	/
Toughness	Impact Strength (Notched)	ASTM D256	64	J/m
	Elongation at Break	ASTM D638	20	%
	Work of Fracture	ISO 20795.1	4300	J/m ²
Stiffness	Tensile Modulus	ASTM D638	1290	MPa
	Flexural Modulus	ASTM D790	1300	MPa
Strength	Tensile Strength	ASTM D638	34	MPa
	Flexural Strength	ASTM D790	58	MPa
Thermal Resistance	Heat Deflection Temperature @0.455 MPa	ASTM D648	52 (125.6)	°C (°F)
Others	Hardness	ASTM D256	81	Shore D
	Water Sorption	ASTM D570	2.5	%
	Viscosity	ASTM D792	373	mPa · s
Additional Passed Tests	UV Light Aging Test ²	ASTM G154	200	h
	Thermal Accelerated Aging Test ³	YY/T 0681.1	1600	h
	Damp Heat Test	IEC 60068-2-78	✓	/

Exceptional Results



No powdering caused by high-speed friction

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 ($\Delta E < 2$) 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.

Sample Request

