HeyGears

ULTRAPRINT MODELING

PAT10 Transparent Resin

PAT10 is a high-transparency resin with high toughness, offering acrylic-like clarity in finished products. It features anti-yellowing properties to ensure stable color across 8 years of indoor use.

This resin can be used to print wearable products that are skin-safe. It is ideal for transparent figurines, model accessories, and consumer electronic components.

- 88.5% light transmittance
- 5.4% haze
- High toughness
- Resistant to long-term aging

Color

Transparent

Specifications

1000g/Bottle

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Basic Performance[1]

	Property	Standard	Results	Unit
Toughness	Impact Strength (Notched)	ASTM D256	31	J/m
	Elongation at Break	ASTM D638	25	%
	Work of Fracture	ISO 20795.1	13200	J/m^2
Stiffness	Tensile Modulus	ASTM D638	1620	MPa
	Flexural Modulus	ASTM D790	1580	MPa
Strength	Tensile Strength	ASTM D638	43	MPa
	Flexural Strength	ASTM D790	67	MPa
Thermal Resistance	Heat Deflection Temperature @0.455 MPa	ASTM D648	67 (152.6)	℃ (℉)
Others	Hardness	ASTM D2240	81	Shore D
	Water Sorption	ASTM D570	0.9	%
	Viscosity	ASTM D4212	925	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	√	/
	In Vitro Cytotoxicity Test	ISO 10993-5:2009	√	/
	Skin Sensitization Test	ISO 10993-10:2021	√	/
	Skin Irritation Test	ISO 10993-23:2021	√	/

Exceptional Results

High transparency

*Special thanks to the fantastic model designers:33变模玩 , 子owT.

[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 (△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 (△E < 2) and a dimensional deviation of ±0.1 mm.

Sample Request