HeyGears

ULTRAPRINT

Resilient Elastomer RE70

RE70 is a production-grade elastomer material with high elasticity and tear resistance. It has passed biocompatibility tests, proving its skin-friendly properties.

It is ideal for mass-producible elastomer applications, including footwear, damping parts, flexible tools, wearables, electronics and medical anatomical models.

- 370% Elongation at Break
- 67% Rebound Resilience
- High Tear Resistance
- Skin-safe
- High elasticity at low temperature, no significant reduction in elasticity at temperatures down to -27 °C (-16.6 °F).

Color

- Black
- White
- Translucent

Specifications

2000g/Bottle

Basic Performance[1]

	Property	Standard	Results	Unit
Toughness	Elongation at Break	ASTM D412	370	%
Strength	Tensile Strength	ASTM D412	22	MPa
	Tear Strength	ASTM D624	68	N/mm
Others	Rebound Resilience Test	ISO 4662	67	%
	Compression Set	ASTM D395	15	%
	Hardness	ASTM D2240	70	Shore A
	Viscosity	ASTM D4212	4380	mPa·s
Additional Passed Tests	Thermal Accelerated Aging Test	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

Highly elastic

High tear resistance

Sample Request

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

[2] Equivalent to 1 year 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.