HeyGears

ULTRAPRINT

# Resilient Elastomer RE40

RE40 is a 40A Shore hardness silicone-like elastomer that delivers a soft, comfortable skin feel, along with skin safety and low odor. It features excellent extensibility, good resilience and fine detail printability for elastomeric parts making it ideal for applications that demand a soft, comfortable touch—such as hearing aids/custom in-ear headphone shells, robot skin, and lattice padding.
Suitable for medical, automotive, and consumer electronics industries, it is well suited for functional prototypes or small-batch production parts.

- 530% elongation at break
- Skin-safe
- 48% rebound resilience
- Silicone-like soft & comfortable feel

**Color**

Translucent

**Specification**

1000g/Bottle

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## Basic Performance[1]

| | Property | Standard | Results | Unit |
|---|---|---|---|---|
| **Toughness** | Elongation at Break | ASTM D412 | 530 | % |
| **Strength** | Tensile Strength | ASTM D412 | 6 | MPa |
| | Tear Strength | ASTM D624 | 13.5 | N/mm |
| | 100% Modulus | ASTM D412 | 0.49 | MPa |
| | 200% Modulus | ASTM D412 | 0.81 | MPa |
| **Others** | Rebound Resilience Test | ISO 4662 | 48 | % |
| | Hardness | ASTM D2240 | 40 | Shore A |
| | Viscosity | ASTM D4212 | 4580 | mPa·s |
| **Additional Passed Tests** | Thermal Accelerated Aging Test[2] | YY/T 0681.1 | 1600 | h |
| | Temperature Change Test | GB/T 2423.22 | √ | / |
| | Color Fastness Test | ISO 105-E04 | √ | / |
| | Thermal Aging Test (-20℃/40℃) | GB/T 2423.22 | √ | / |
| | In Vitro Cytotoxicity Test | ISO 10993.5 | √ | / |
| | Skin Sensitization Test | ISO 10993.10 | √ | / |
| | Skin Irritation Test | ISO 10993.23 | √ | / |

**Sample Request**

[1] Data from HeyGears Lab. Results are average values with ±10% deviation.

[2] Equivalent to 1 year of outdoor use, the material's properties degrade by less than 30%, with a non-significant color change ($\triangle E < 2$) and a dimensional deviation of ±0.1 mm.