

# ADVANCED PERFORMANCE 3D PRINTING FILAMENTS



## Flexible Filaments from a 3D Printing Pioneer

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- Widest Range of Performance
- Industry-leading Printability
- Unmatched Breadth of Applications



# THE PERFORMANCE YOU WANT... THE PRINTABILITY YOU NEED.

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## **Widest Range of Performance**

From soft and skin-safe to rugged and durable. From fast and printable to flexible and conductive. Whatever your challenges, we have the 3D printing filament you need.

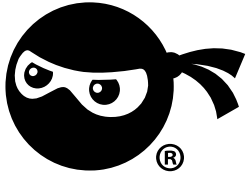
## **Industry-Leading Printability**

NinjaFlex filaments rely on our five decades of TPU extrusion experience and over a century of manufacturing, technical and commercial expertise—much of it focused on thermoplastics. We've spent decades building a stable of raw material sources that supply us with engineering-grade materials.

## **Unmatched Breadth of Applications**

From aerospace and industrial manufacturing applications that reshape our world to fashion and sports applications that redefine style and safety, NinjaTek is there.





# NINJAFLEX™ 85A AND NINJAFLEX EDGE 83A

## The Market's First Flexible Filament

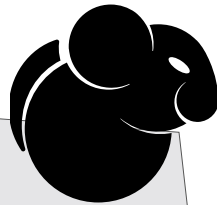
As the first flexible material on the market, NinjaFlex TPU filament has proprietary technology that boasts a low-tack, easy-to-feed texture ideal for direct-drive extruders. The material has abrasion and chemical resistance 20% better than ABS and 68% better than PLA and results in consistent printed parts. It can be elongated 660%, allowing it to withstand repeated movement and impact with wear or cracking.

**NinjaFlex Edge** offers the best of both worlds: NinjaFlex flexibility and NinjaTek's innovative printability. NinjaFlex Edge provides incredible rebound - unlike anything in the market, and unparalleled print speeds for an 83A durometer.

- **Unrivalled flexibility**
- **Unmatched elongation**
- **Vibration reduction**

#### Applications:

*Sneaker insoles, helmet inserts, prosthetics, realistic organ prototypes, design prototypes, parts*



- **Soft-touch feel**
- **Skin-safe**
- **Matte finish**

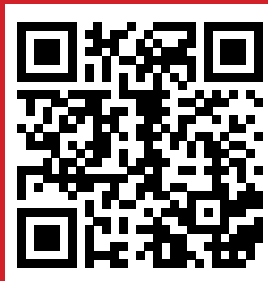
#### Applications:

*Socket liners for prosthetics, orthotics, surgery, fashion (shoes, wearables against the skin, cosplay)*

# CHINCHILLA™ 75A

## Flexible Soft Touch 3D Filament

When it comes to print quality you can feel at first touch, Chinchilla delivers. Engineering-grade resins and NinjaTek's proprietary extrusion method combine to offer the unprecedented dual advantage of softness and ease of printing on both direct drive and Bowden extrusion printers. It is certified skin-safe using the EpiDerm™ Skin Model.

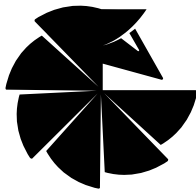


**Check out what innovative makers are creating with Chinchilla**









## ARMADILLO™ 75D

**Rigid, Functional and Easy-to-Print Filament**

Armadillo is a high-performing, rigid TPU filament that provides 90% higher abrasion resistance than nylon. Its toughness ratings are superior to commonly used materials, and it's an excellent 3D printing material to use for bridging with virtually no warping issues. Consistent diameter and material properties provide reliable, high-quality prints.

- **Unequaled chemical resistance**
- **Unprecedented tensile strength**
- **Excellent durability and abrasion resistance**

**Applications:**

*Impact-resistant shoes and other sports equipment*



- **Conductive**
- **Static-dissipative**
- **Flexible**

**Applications:**

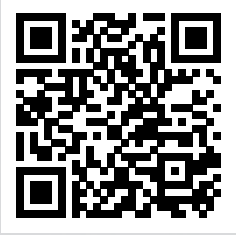
*Perfect for robotic manufacturing, automation, small LEDs or cosplay LED gloves and wearable devices*

## EEL™ 90A

**The Only Conductive, Static Dissipative Filament On the Market**

Eel TPU 3D printing filament is one of the only conductive, static dissipative and flexible materials on the market. The consistent diameter yields high-quality prints, and it's chemically resistant to a variety of materials.





See how NinjaTek is helping  
shape the future of your industry



Get advanced help in selecting the right filament for  
your application. Schedule a custom filament  
consultation with our 3D Materials Engineering team.

Authorized Reseller/Distributor

RF SOLUTIONS ENTERPRISE  
[www.royalforgedsolution.com](http://www.royalforgedsolution.com)  
Email: [sales@royalforgedsolution.com](mailto:sales@royalforgedsolution.com)  
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