FORWARD AM
Innovating Additive Manufacturing

BASF
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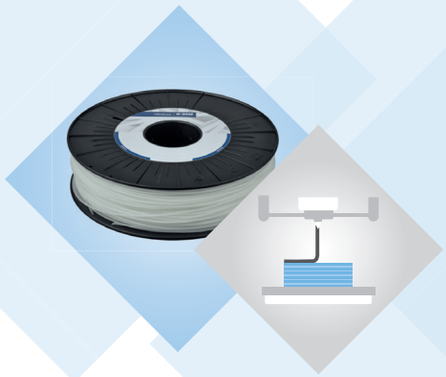

Ultrafuse® TPU 85A

First Flexible BASF Filament Based on Elastollan®

Ultrafuse® TPU 85A was specially developed for FFF printing and is an advanced filament based on BASF´s Elastollan® materials. Elastollan® is the brand name for thermoplastic polyurethane (TPU) by BASF. It stands for maximum reliability, consistent product quality, and cost efficiency.

Ultrafuse® TPU 85A offers a broad range of degrees of hardness with different designs, making this filament an ideal material in applications where specific degrees of flexibility are critical.

Benefits at a Glance

- High wear and abrasion resistance
- Very good low-temperature flexibility
- High tensile strength and outstanding resistance to tear propagation
- Excellent damping characteristics
- High resistance to oils, greases, oxygen and ozone

Example Applications

- Functional flexible parts
- Footwear, sports and leisure
- Automotive, industrial manufacturing, agriculture, and construction

Material Properties

Tensile Notched Impact Strength (kJ/m^2)	132 (ZX), no break (XY) (XY), (XY)
Shore D Hardness	37
Shore A Hardness	90
Elongation at Break, Strain at Break	320 % (ZX), 600% (XY)
Impact Strength Izod notched	no break

Printing Guidelines

Nozzle Temperature	200-220 °C
Bed Temperature	40 °C
Nozzle Diameter	≥ 0.4 mm
Bed Modification	Glass
Print Speed	15-40 mm / sec

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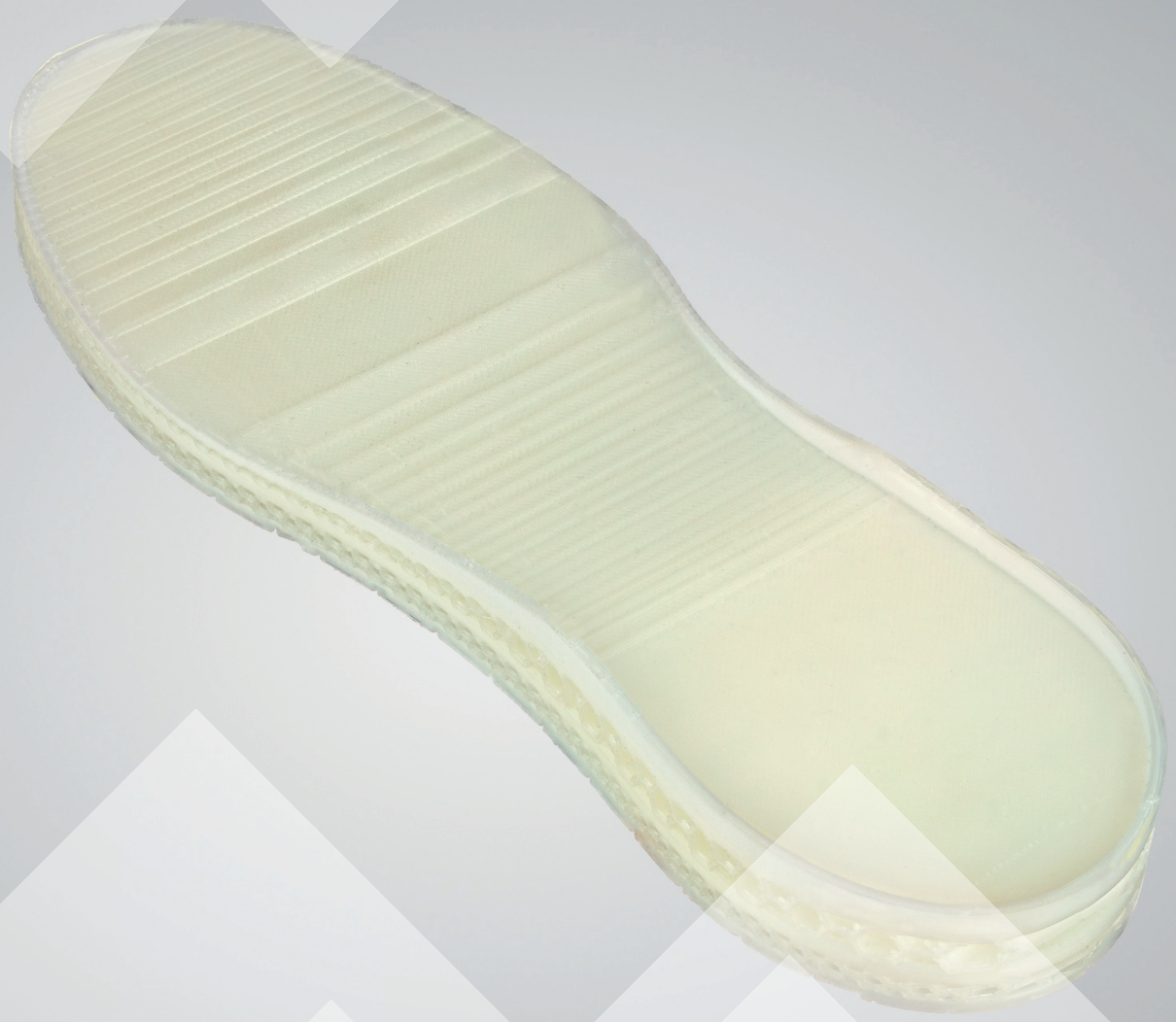

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