# Extrudr TPU Flex Line - 3d Printing Filament

## Description

The Extrudr TPU Flex line with different degrees of hardness has been developed mainly for industrial applications.
The chemical resistance, which prevails in the machine environment, was taken into consideration.
As a result depending on the application area or industry, individual solutions can be offered.

## Storage and Shelf Life

Store at around room temperature (18 to 27 °C [65–80 °F]) and protect from direct heat or sun light. Keep sealed in an air tight container, away from humidity.

## Speed vs. Temperature

The printing speed and its related temperature is not only defined by the design of the 3D model, but also by the printer, hotend and nozzle being used.

For questions or further information please contact us.

support@extrudr.eu

## Settings

| | |
|---|---|
| Extrudr: | 190 - 230°C |
| Heating bed: | 0-90 °C |
| Speed: | up to 80mm/s |

## TPU hard

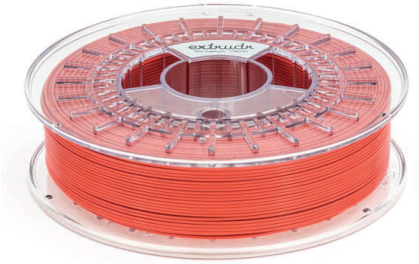
| Property | Testing Method | Typical Value |
|---|---|---|
| Hardness | ISO 868 | Shore D58 |
| Specific Gravity | ISO 2781 | 1.19 -1,24 g/cm^3 |
| Ultimate Elongation | ISO 527-2/5A/500 | 480% |
| Tensile Strength | ISO 527-2/5A/500 | 40 MPa |
| Tear Strenght | ISO 34-1B | 170kN/m |
| Vicat Softening Point | ISO 306 (A50) | 137°C |

## TPU medium

| Property | Testing Method | Typical Value |
|---|---|---|
| Hardness | ISO 868 | Shore A98 |
| Specific Gravity | ISO 2781 | 1.18 -1,23 g/cm^3 |
| Ultimate Elongation | ISO 527-2/5A/500 | 470% |
| Tensile Strength | ISO 527-2/5A/500 | 40 MPa |
| Tear Strenght | ISO 34-1B | 175kN/m |
| Vicat Softening Point | ISO 306 (A50) | 115°C |

## TPU soft

| Property | Testing Method | Typical Value |
|---|---|---|
| Hardness | ISO 868 | Shore A82 |
| Specific Gravity | ISO 2781 | 1.16 -1,21 g/cm^3 |
| Ultimate Elongation | ISO 527-2/5A/500 | 630% |
| Tensile Strength | ISO 527-2/5A/500 | 40 MPa |
| Tear Strenght | ISO 34-1B | 80kN/m |
| Vicat Softening Point | ISO 306 (A50) | 77°C |



## True Colors

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## Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product.

| | |
|---|---|
| Mechanical Properties | ++ |
| Abrasion Resistance | ++ |
| Low Temperature Flexibility | + |
| Hydrolytic Stability | 0 |
| Heat Ageeing | ++ |
| Resistance to Oil and Fuels | ++ |

| | |
|---|---|
| Excellent | ++ |
| O.K. | 0 |
| Weak | - |



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