

## Material Data Sheet

TPU 92.3D

Elastomer	TPU	thermoplastisches Polyurethan
Hardness	91	Sh A
Printing Temperatures	215 - 260	°C
Colour	similar RAL	
Remarks	42	Sh D

### Printing properties

Printing temperatures	220 ...240	°C	
Printing speed	20 - 30	mm/s	
Hot pad	50-60	°C	
Bed adhesive	Magigoo		
Fan speed	70-100	%	

### Mechanical properties

Density	1,2	g/cm <sup>3</sup>	ISO 1183-1-A
Tensile Strength	49	MPa	DIN 53504-S2
Elongation at break	600	%	DIN 53504-S2
Stress at 20 % elongation		MPa	DIN 53504-S2
Stress at 100 % elongation		MPa	DIN 53504-S2
Stress at 300 % elongation		MPa	DIN 53504-S2
Tear strength	85	kN/m	DIN ISO 34-18b
Abrasion loss	30	mm <sup>3</sup>	DIN ISO 4649A
Compression Set 23°C/72 h		%	DIN ISO 815
Compression Set 70°C/24 h		MPa	DIN ISO 815
Tensile strength after storage in water 80°C/42d		MPa	DIN ISO 53502-S2
Elongation at break after storage in water 80°C/42d		%	DIN ISO 53502-S2

### Approvals of this compound

none

**Note**

The test results are mean values and represent typical material properties. They are gained under usual laboratory conditions and do not necessarily correspond to results measured on finished goods. The compound information does not release the user from the necessity to conduct his own testing's. Production methods and ingredients are subject to change with regard to technical progress and toxicological regulations

This document does not subject to a revision service

## Material Data Sheet

TPU 92.3D

### TPU thermoplastisches Polyurethan

- Hohe Elastizität
- 700% Dehnbarkeit
- Kompatibel mit handelsüblichen Extrudern
- Auch für Dualextruder und Kombinationsdrucke (ABS, PLA, etc.) geeignet
- Sehr hohe Druckqualität
- Kein beheiztes Druckbett notwendig
- Enorm zäh
- Geringe Wasseraufnahme

- High elasticity
- 700% Elongation
- Compatible with commercially available extruders
- Also suitable for dual extruders and combination printing (ABS, PLA, etc.)
- Very high print quality
- No heated print bed necessary
- Enormously tough
- Low water absorption

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