

Material Data Sheet

TPU 82.3D

Elastomer	TPU	thermoplastisches Polyurethan	
Hardness	82	Sh A	ISO 7619-1 (3s)
Printing Temperatures	215 - 260	°C	
Colour	similar RAL		
Remarks	31	Sh D	

Printing properties

Printing temperatures	215 bis 250	°C	20-160 mm/s
Printing speed	20 - 60	mm/s	
Hot-bed temperature	0	°C	
Optimal layer height	0.2	mm	
Minimal nozzle diameter	0.4 or higher	mm	
Retraction parameters	3.5 - 6.5	mm	

Mechanical properties

Density	1,12	g/cm ³	ISO 1183-1-A
Tensile Strength	45	MPa	DIN 53504-S2
Elongation at break	650	%	DIN 53504-S2
Stress at 20 % elongation	2,5	MPa	DIN 53504-S2
Stress at 100 % elongation	6	MPa	DIN 53504-S2
Stress at 300 % elongation	10	MPa	DIN 53504-S2
Tear strength	70	N/mm	DIN ISO 34-18b
Abrasion loss	25	mm ³	DIN ISO 4649A
Compression Set 23°C/72 h	25	%	DIN ISO 815
Compression Set 70°C/24 h	45	MPa	DIN ISO 815
Tensile strength after storage in water 80°C/42d	32	MPa	DIN ISO 53502-S2
Elongation at break after storage in water 80°C/42d	600	%	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 82.3D

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

Note

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