



## TPU 1301

A flexible SLS material suitable for elastic functional prototypes and series-production pieces

### PRINTING PROCESS

Selective laser sintering (SLS)

### DESCRIPTION

TPU 1301 is a white, thermoplastic polyurethane powder with rubber-like elasticity. It is suitable for the production of highly flexible, abrasion-resistant, high-precision pieces. The material is particularly suitable for bending parts.

### APPLICATION

Typical fields of application include shoe soles, damping elements, orthopaedic inserts, seals, pipes, grips, bellows and tyres.

## TECHNICAL DATA

Description	TPU 1301
Colour	white
Hardness [Shore D]	86
Flexural modulus [MPa]*	
Bending strength [MPa]*	
Tensile modulus of elasticity [MPa]*	60
Tensile strength [MPa]*	7
Elongation at break [%]*	250
Notched bar impact strength [kJ/m <sup>2</sup> ]*	no breakage
Density [g/cm <sup>3</sup> ]	1,11
HDT @ 0.45 MPa [°C]*	

\*X direction

Under no circumstances can the published information about the material data be considered as express warranty or otherwise. The density and mechanical properties may vary depending on the light exposure parameters and the x, y, z positioning of the test pieces. The application of these information and references as well as the decision on the suitability of any product for special applications is in all cases subject to the sole responsibility of the user.

cirp GmbH  
Römerstraße 8  
D-71296 Heimsheim

Phone +49 7033.30987-0  
Fax +49 7033.30987-50  
info@cirp.de | www.cirp.de