

# toner plastics

## Technical Data Sheet

### TPU

Effective Date: 01/05/2022

Revision Number: 02

<i>Filament Specifications</i>	<i>Typical Value</i>	<i>Unit</i>
Nominal Outer Diameter	1.75 / 2.88	mm
OD Tolerance	± 0.05	mm
Ovality	< 0.05	mm

<i>Physical Properties</i>	<i>Standard</i>	<i>Unit</i>	<i>Typical Value</i>
Density	ISO 1183	g/cc	1.20

<i>Mechanical Properties</i>	<i>Standard</i>	<i>Unit</i>	<i>Typical Value</i>
Tensile Strength, Break	ISO 527	MPa	55.2
Tensile Elongation, Break	ISO 527	%	580
Tensile Modulus	ISO 527	MPa (@ 100% - 300%)	7.8 - 18.6
Flexural Modulus	ISO 178	MPa	250
Flexural Strength	ISO 178	MPa	N/A

<i>Thermal Properties</i>	<i>Standard</i>	<i>Unit</i>	<i>Typical Value</i>
Glass Transition Temperature (Tg)	DSC	°C	-45
Heat Deflection Temperature (HDT)	ISO 75	°C (@ 0.45 MPa)	N/A

<i>Hardness Properties</i>	<i>Standard</i>	<i>Unit</i>	<i>Typical Value</i>
Shore Hardness	DIN 53505	A	90

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