

ENGINEERING DATA SHEET

DSM 3.3.5

ASMPT

Thermoplastic Polyurethane (TPU) 3D Printer Filament

General:

TPU is a versatile 3D printer filament. The material is ideal for applications which require a plastic with rubber like qualities.

Benefits:

- High tear resistance.
- High impact strength.
- Up to 580% elongation at break.
- High resistance to corrosion.

Limitations:

- Poor resistance to heat, sunlight, and water.
- Not suitable for parts requiring high rigidity.

ASMPT Applications:

- 3D printed part (ASMPT printer feet protectors).

Colours:

- Colours can be specified in part drawings. For example, **DSM 3.3.5_Black**.

These values are representative and vary considerably between suppliers and print settings. For critical applications, refer to datasheet.

Mechanical Properties (FDM Test Specimen)					
	HARDNESS SHORE A	TENSILE STRENGTH	YOUNGS MODULUS:	IMPACT RESISTANCE	DENSITY
TPU	95	8.6MPa Yield 39 MPa Break	26 MPa	34.4 kJ/m ²	1220 kg/m ³

Alternatives:

Alternative polymers are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com

Issue	01	02	03	04	05	06	07	08
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