

TECHNICAL DATA SHEET

TPU (95A) FILAMENT

Flexible (TPU 95A) It's a similar to rubber high flexibility, durability, chemical and water resistant with excellent impact strength. Its excellent elasticity to stretch more than 3 time from its original size. That's the only reason its most popular to every maker belong to flexible printed part.

Application: - For flexible print, engineering industry (flexible coupling, "o" ring & seal, pneumatic seal, hydraulic seal kit etc.), robotics industry (wheels or tires, belt or flat ring etc.), drone parts (anti vibration pad, sleeve, camera cover or case etc.) mechanical parts, mechanical and electronic function parts, customized gift industry (keychains, mobile phone cover etc.)

Post processing: - Average (rubber cutter)

TYPICAL TPU (95A) MATERIAL PROPERTIES

| Physical properties | Method | Typical value |
|---------------------------|----------------|------------------------|
| Shore hardness | Method A | 95 |
| Density | ISO 1183 | 1230 kg/m ³ |
| Mechanical properties | method | Typical value |
| Ultimate tensile strength | ISO 527-1, -3 | 45 MPa |
| Elongation at break | ISO 527 -1, -3 | 450 % |
| Abrasion resistance | ISO 4649 | 50 MM ³ |
| Stress at 300% strain | ISO 527 -1, -3 | 31 MPa |

Disclaimer

The results in the data sheet are just for your information and comparison values are significantly dependent on print or printer settings, operating experiences and surrounding conditions or weather. Everyone has to consider suitability and possible consequences of printed parts usage. Tesseract cannot carry any responsibility for any change of data during outside testing or injures or any loss caused by using of Tesseract material.