

# FLEXA DIGITAL TPU

## Technical Data Sheet

TDS EN\_FLEXA-DIGITAL-TPU\_062023



The first project made with FLEXA DIGITAL TPU.



Complete flexible seals, O-rings.



Production of bags or parts thereof.

## THE TPU PERFORMANCE IN 3D PRINTING

The DWS material, Flexa Digital TPU, is the solution for using TPU with 3D additive technology.

It is a **functional material**, ready for fitting tests, fashion shows, pre-series up to full production runs.

Available in two variants: **Flexa Digital TPU 75** e **Flexa Digital TPU 92**, in different colors.

## FLEXA SERIES

The Flexa series includes all the materials suitable for the production of flexible prototypes, finished products and models. These materials are extremely accurate and precise and were developed in-house by DWS.

## FEATURES

- Good rebound
- High elasticity and flexibility
- High accuracy and resolution
- Elongation properties
- High surface quality

## TECHNICAL FEATURES OF THE LIQUID MATERIAL

Viscosity	11500 MPa·s a 25°C
Density	1,04 g/cm <sup>3</sup>

## FLEXA DIGITAL TPU 75 - TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

Elongation	300 %
Shore hardness (Shore A)	75
Modulo elastico (MPa)	25

## FLEXA DIGITAL TPU 92 - TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

Elongation	220 %
Shore hardness (Shore A)	92
Tensile Modulus (MPa)	76

## AREAS OF APPLICATION

Flexa Digital TPU is proposed not only for the footwear industry but also for the automotive, gaskets, racing and fashion accessories.

In combination with DWS 3D printers, Flexa Digital TPU ensures a perfect result, helping production to cut down time-to-market.

## SUITABLE 3D PRINTERS

Flexa Digital TPU is developed for the following 3D printers:

- 029XC with RT515 resin tank
- XPRO S with RT315 enhanced resin tank
- XPRO SL with RT315 enhanced resin tank
- XPRO Q with RT315 enhanced resin tank
- XPRO QL with RT315 enhanced resin tank

## AVAILABLE COLORS

- FLEXA DIGITAL TPU WHITE
- FLEXA DIGITAL TPU CREPE SOLE (orange tone)
- FLEXA DIGITAL TPU GREY
- FLEXA DIGITAL TPU BLACK

All SKUs are available in 1kg and 5kg packages.

Technical specifications are subject to change without notice.

## DWS srl

Via della Meccanica 21 - 36016 Thiene (VI) - Italy

T: +39 0445 810810 - E: info@dwssystem.com - I: www.dwssystem.com

