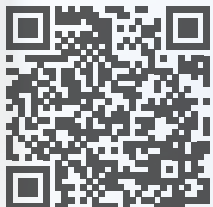




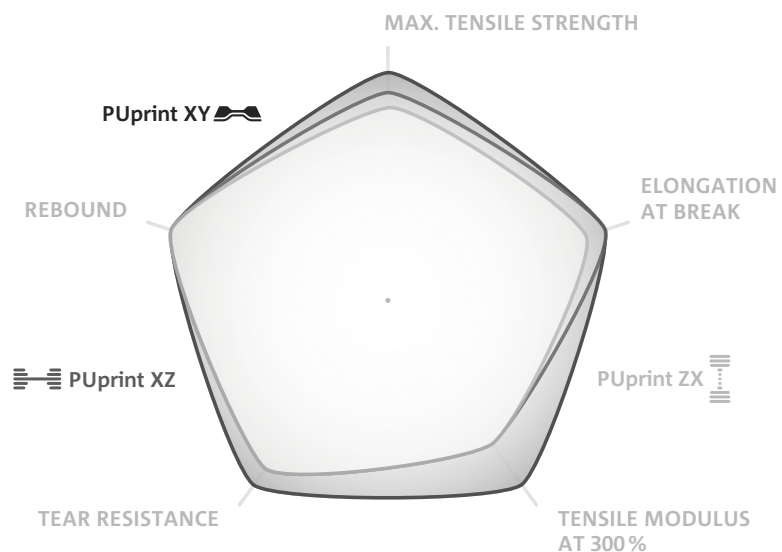
3D PRINTABLE THERMOSET PU  
**SYNTHENE**  
**SYNTHED+**  
PU PRINT 70 SHORE A



Watch a short clip  
of the SYNTHED+  
PUprint in action.




DEVELOPED IN  
PARTNERSHIP WITH  
**Lynxter**

# PURE INNOVATION IN 3D PRINTING



Mechanical properties of  
PUprint 70 Shore A  
in all dimensions

## TECHNICAL DATA

PRODUCT TYPE AND PRINT ORIENTATION			PUPRINT XY 	PUPRINT ZX 	PUPRINT XZ 
Hardness	Shore A	ISO 868	72		
Hardness at 80 °C	Shore A	ISO 868	65		
Max. tensile strength at 23 °C	MPa	ISO 37-1	11	9	10
Elongation at break at 23°C	%	ISO 37-1	1000	900	1000
Tensile modulus at 300%	MPa	ISO 37-1	6,2	4,7	4,5
Tear resistance	kN/m	ISO 34-1	43	39	39
Rebound	%	ISO 4662	47		

## SYNTHÈD+ PUPRINT A NEW GENERATION OF POLYURETHANE

- » Allows the printing of durable soft parts with reliability
- » As strong as casting and injection PUs thanks to the chemical bonds between layers
- » From soft to semi-rigid with four different hardness levels
- » For functional parts requiring high thermal, mechanical or chemical resistance

## ELASTOMERS FOR 3D PRINTING

- » Isotropic material, its structural integrity ensures exceptional wear resistance
- » The PUprint solution provides a robust alternative to existing TPU filament materials on the market

## ALREADY IN APPLICATION IN THE INDUSTRY

- » Our partners have already ordered the first 3D printing machines to print this cutting-edge material, with high demand from sectors such as defense, aviation, automotive and other industries with high performance requirements



### CONTACT

Max Mezza

+33 3 44 31 78 05 TEL  
+33 6 14 48 41 26 CELL

[mma@synthene.com](mailto:mma@synthene.com)

SYNTHENE SAS

45 Ferme de l'Evêché  
60723 Pt-St-Maxence

[www.synthene.com](http://www.synthene.com)