

MATERIALS HANDBOOK INDUSTRY



ASIGA®
DIGITAL MANUFACTURING SOLUTIONS



FusionGRAY

A high temperature material for injection mould tooling inserts. Reduce time to market with FusionGRAY for rapid tooling and digital manufacturing. Resistant to temperatures to to 160°C / 320°F with excellent compressive strength. Layer thickness range from 10 microns.

- Applications:
- Injection mould tooling inserts.
 - For components requiring high temperature resistance.

Printer compatibility: 405nm.

\$265 p/L

Available in 500mL and 1L bottles

Technical Data

COLOR	DARK GRAY
GLASS TRANSITION TEMPERATURE	160°C / 320°F





PlasGRAY

Asiga's Plas range of materials exhibit exceptional mechanical strength properties along with superior surface finish and detail definition. PlasGRAY offers a super smooth matte surface finish with crisp product detailing. Layer thickness range from 10 microns.

- Applications:
- Product enclosures.
 - Jigs and fixtures
 - Miniature model making

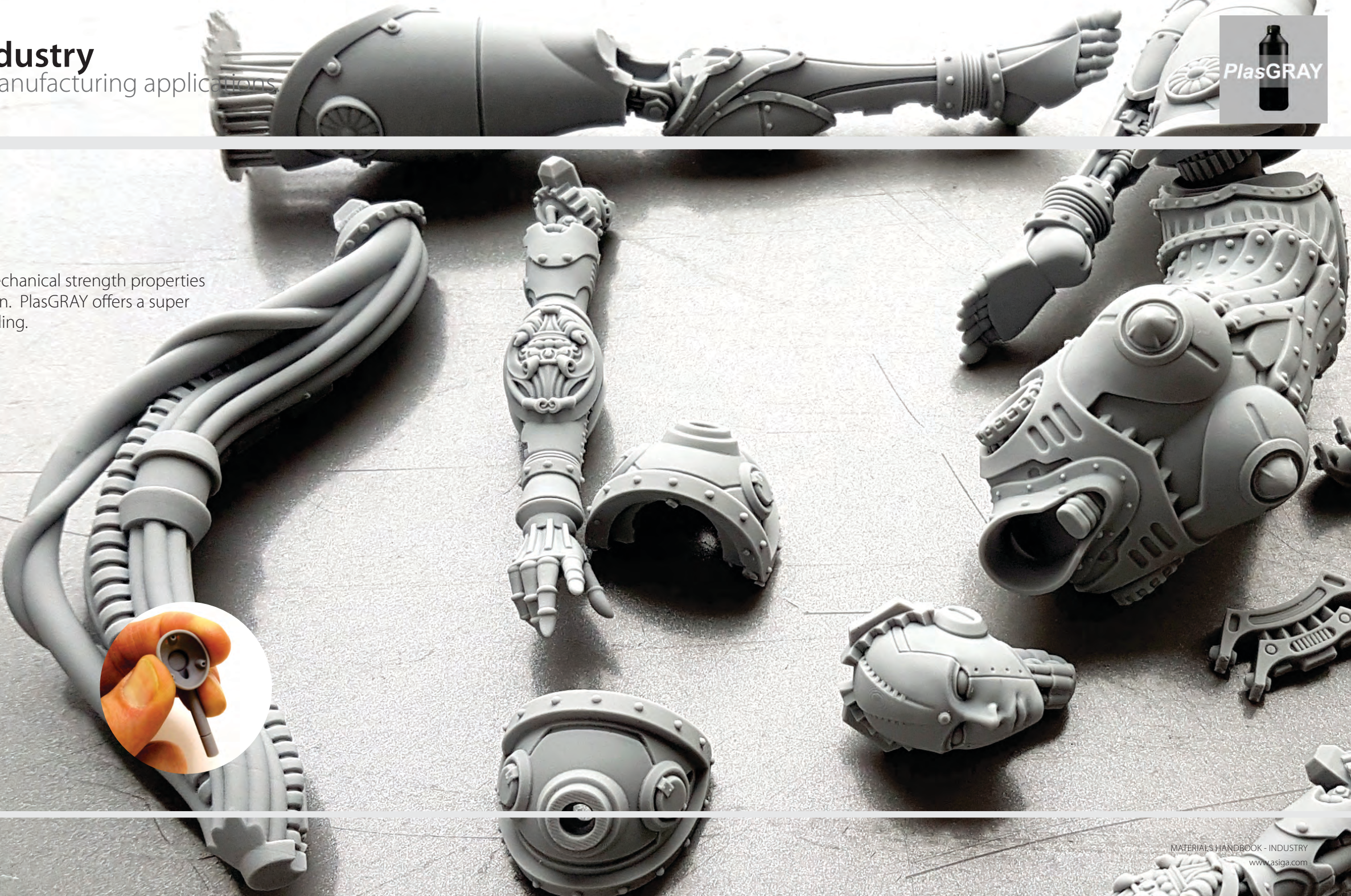
Printer compatibility: 385nm (UV) and 405nm.

\$175 p/L

Available in 500mL and 1L bottles

Technical Data

COLOR	GRAY
TENSILE STRENGTH	51.1 Mpa
ELONGATION AT BREAK	6.58 %
ELONGATION AT YIELD	8.40%
FLEXURAL STRENGTH	86.8 MPa
FLEXURAL MODULUS	1910 MPa
HARDNESS (SHORE D)	82 Shore D
VISCOSITY	343 mPa s
GLASS TRANSITION TEMPERATURE	84°C
IZOD NOTCHED-IMPACT	4.97 kJ/m ²
DENSITY	1.181 g/cm ³





PlasPINK

With the same mechanical strength characteristics as PlasGRAY and PlasWHITE, PlasPINK is an alternative colour option for printing miniature models, product enclosures and jigs & fixtures. Layer thickness range from 10 microns.

- Applications:
- Product enclosures
 - Jigs and fixtures
 - Miniature model making

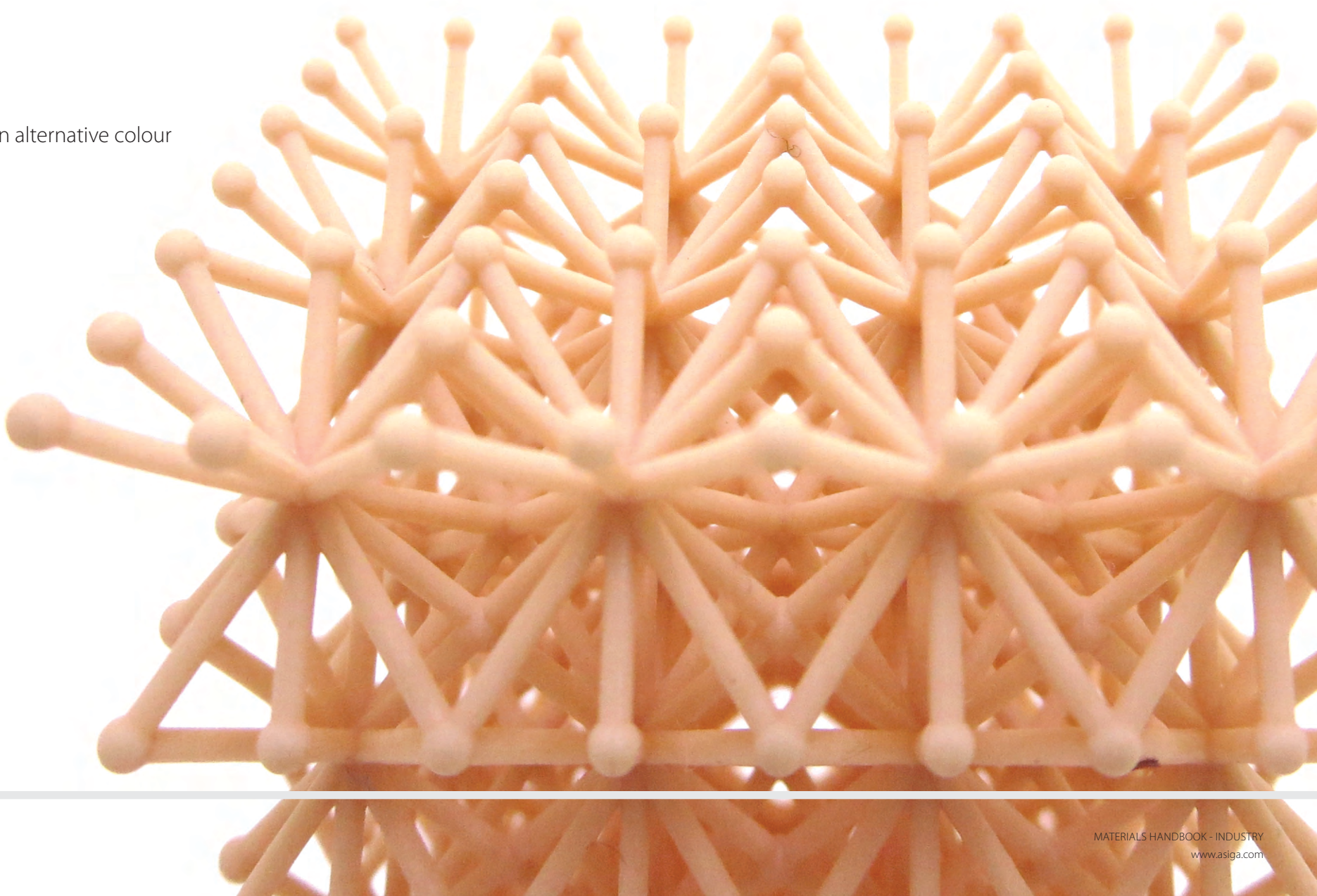
Printer compatibility: 385nm (UV) and 405nm.

\$175 p/L

Available in 500mL and 1L bottles

Technical Data

COLOR	PINK
TENSILE STRENGTH	51.1 Mpa
ELONGATION AT BREAK	6.58 %
ELONGATION AT YIELD	8.40%
FLEXURAL STRENGTH	86.8 MPa
FLEXURAL MODULUS	1910 MPa
HARDNESS (SHORE D)	82 Shore D
VISCOSITY	343 mPa s
GLASS TRANSITION TEMPERATURE	84°C
IZOD NOTCHED-IMPACT	4.97 kJ/m ²
DENSITY	1.181 g/cm ³





PlasWHITE

As white as milk, PlasWHITE is a tough ABS / PP-like resin, ideal for prototpye components intended to be injection moulded in a white ABS/PP blend. PlasWHITE is also useful as a base colour for painting. Layer thickness range from 10 microns.

- Applications:
- Product enclosures.
 - Jigs and fixtures.
 - Presentation models - ideal for painting.

Printer compatibility: 405nm.

\$175 p/L

Available in 500mL and 1L bottles

Technical Data

COLOR	WHITE
TENSILE STRENGTH	51.1 Mpa
ELONGATION AT BREAK	6.58 %
ELONGATION AT YIELD	8.40%
FLEXURAL STRENGTH	86.8 MPa
FLEXURAL MODULUS	1910 MPa
HARDNESS (SHORE D)	82 Shore D
VISCOSITY	343 mPa s
GLASS TRANSITION TEMPERATURE	84°C
IZOD NOTCHED-IMPACT	4.97 kJ/m ²
DENSITY	1.181 g/cm ³





PlasCLEAR

With excellent visual clarity, PlasCLEAR can be used when producing clear screens, micro-fluidic devices and other applications where clear materials are required. A tough material with excellent mechanical strength. Layer thickness range from 10 microns.

- Applications:
- Clear components / screens.
 - Micro-fluidic devices
 - Jigs and fixtures

Printer compatibility: 405nm.

\$175 p/L

Available in 500mL and 1L bottles

Technical Data

COLOR	CLEAR
TENSILE STRENGTH	52.6 Mpa
ELONGATION AT BREAK	6.88 %
ELONGATION AT YIELD	8.90%
FLEXURAL STRENGTH	87.3 MPa
FLEXURAL MODULUS	1915 MPa
HARDNESS (SHORE D)	79 Shore D
VISCOSITY	342 mPa s
GLASS TRANSITION TEMPERATURE	83°C
IZOD NOTCHED-IMPACT	4.91 kJ/m ²
DENSITY	1.184 g/cm ³

