

INFINAM®

The first address for
industrial ready-to-use material
supply in Additive Manufacturing



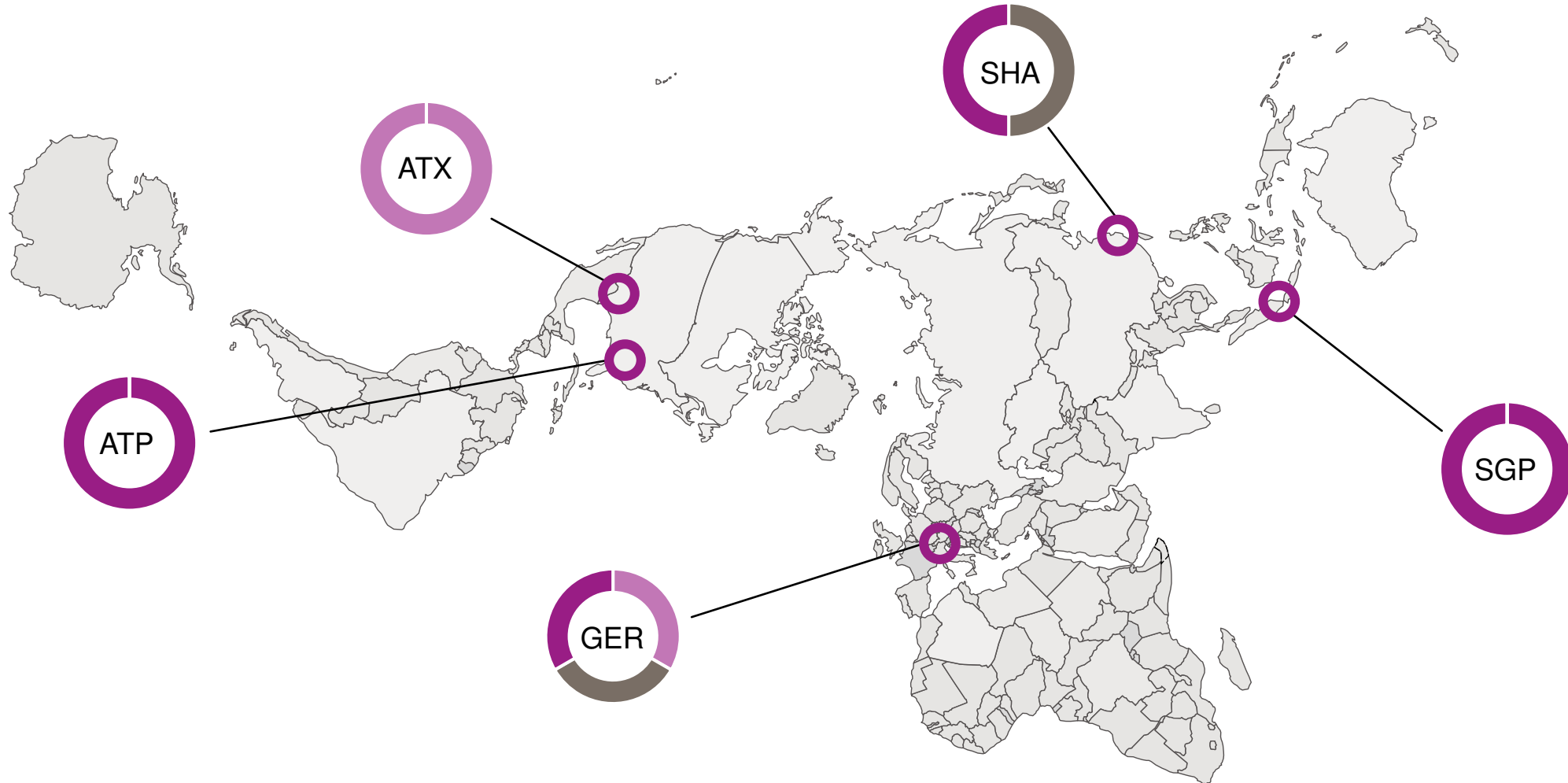
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Additive Manufacturing hubs are distributed globally to ensure global reach and high customer intimacy.



 Powders  Filaments  Photopolymers

Austin (ATX), Allentown/Parsippany (ATP), Germany (GER), Shanghai (SHA), Singapore (SGP)

INFINAM® Photopolymers

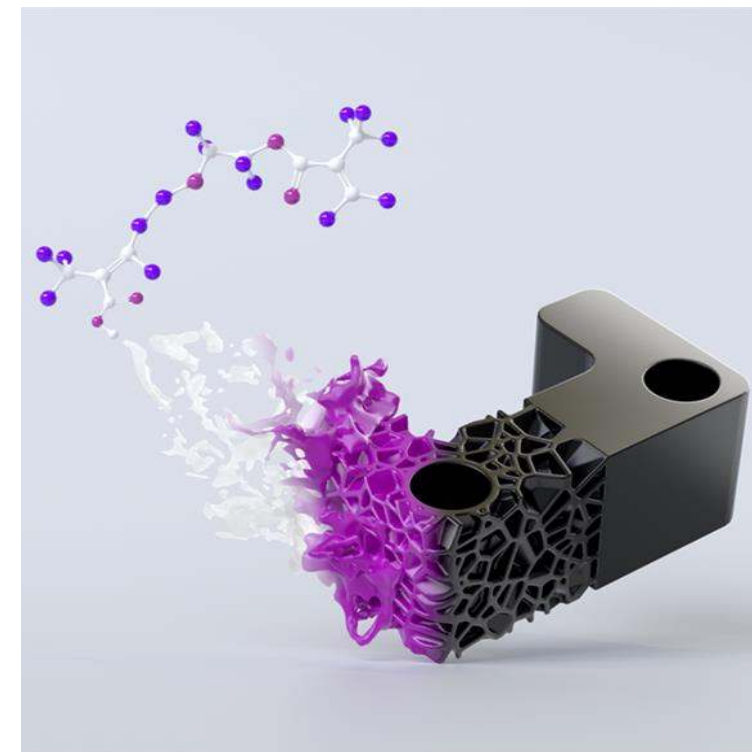
Industrial ready-to-use material supply in Additive Manufacturing

Properties (Type)	ST 6100 L (GF-Nylon)	TI 3100 L (PP)	RG 3101 L (ABS)
Viscosity (mPa.s)	450	1,060	1,750
Density (g/cm ³)	1.1	1.1	1.1
Tensile Strength (MPa)	89	35	58
Young's Modulus (GPa)	3.2	1.5	2.1
Elongation (%)	6	120	25
Notched Izod A (J/m)	22	40	45
Shore D	89	80	83
HDT @0.455 MPa (°C)	120	47	79
HDT @1.82 MPa (°C)	93	-	58

High Precision & Easy to Process

Excellent Mechanical Properties

Aging Resistance

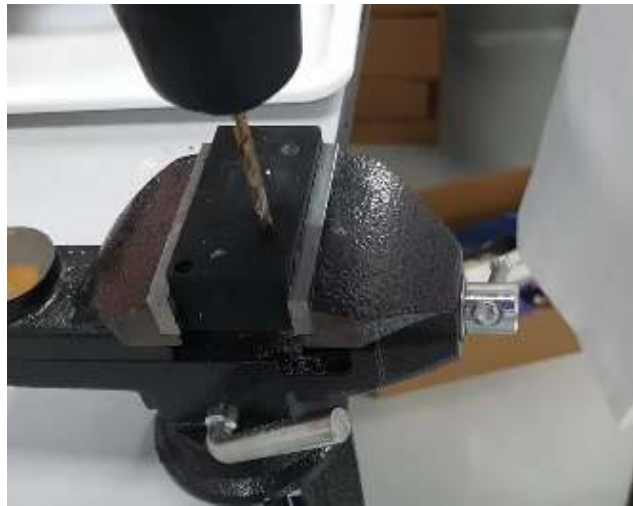


DLP 3D Printer. Wavelength 405 nm and Intensity 11 mW/cm². Samples were post-cured following the corresponding recommended treatment.

INFINAM® ST 6100 L

Strong and temperature resistant

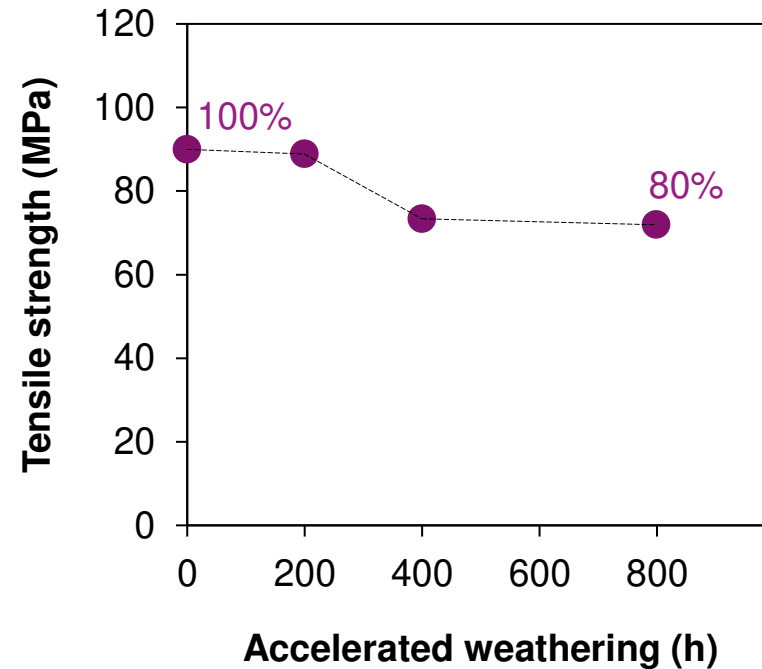
Functional component
Generic connector



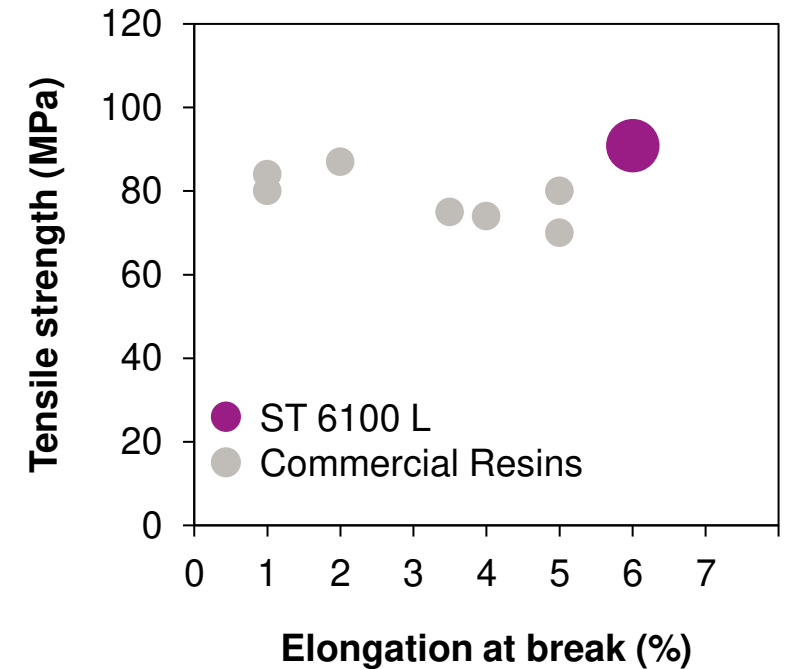
HDT @0.455 MPa 120 °C

HDT @1.82 MPa 93 °C

Outdoor weathering
(Q-UV, ASTM G-154)



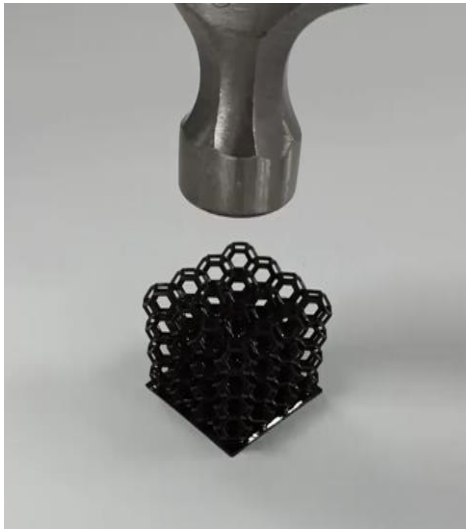
Benchmark for high-strength resins
from SLA/DLP systems



INFINAM® TI 3100 L

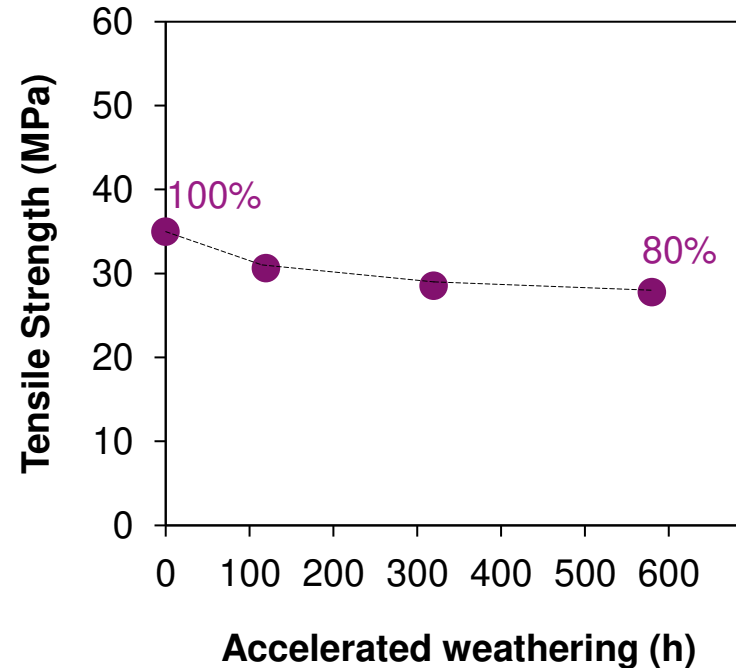
Tough and impact resistant

Functional component
Test Cube

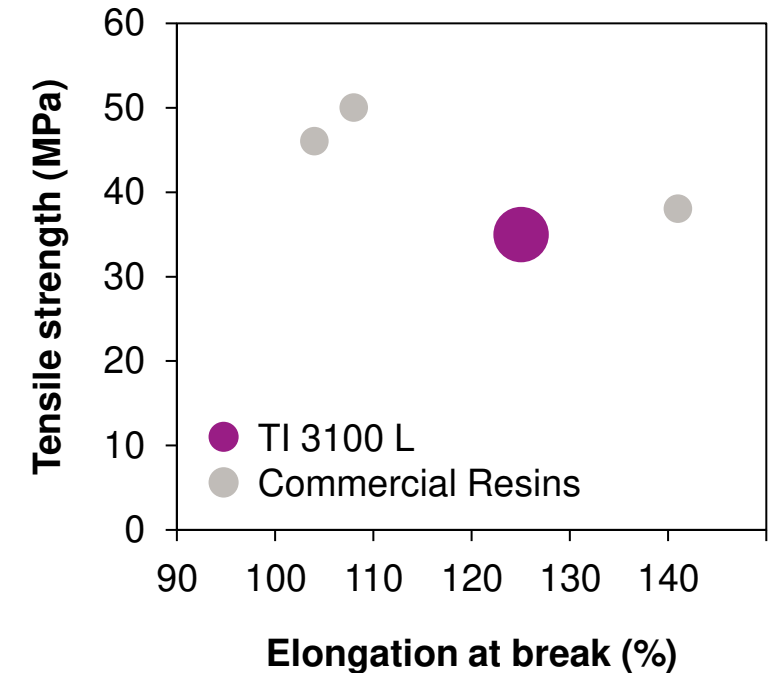


Enhance platform adhesion
to print large objects

Outdoor weathering
(Q-UV, ASTM G-154)



Benchmark for tough resins
from SLA/DLP systems



INFINAM® RG 3101 L

Highly impact and temperature resistant

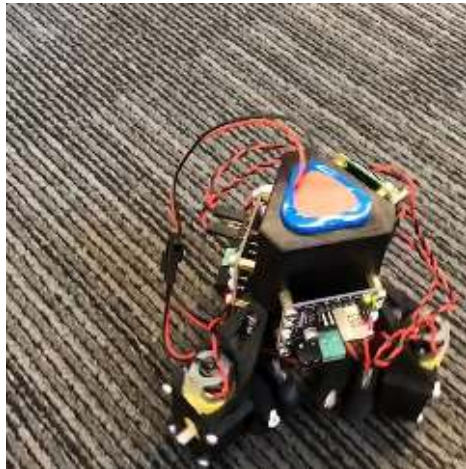
Functional Component
Robot



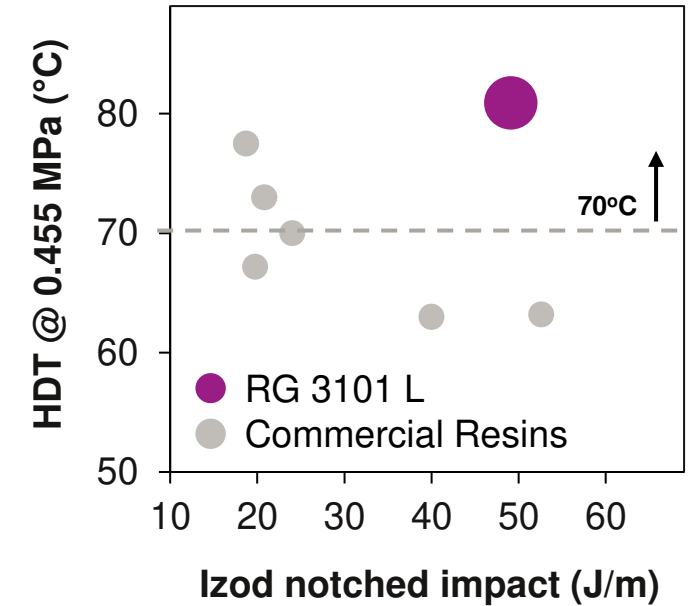
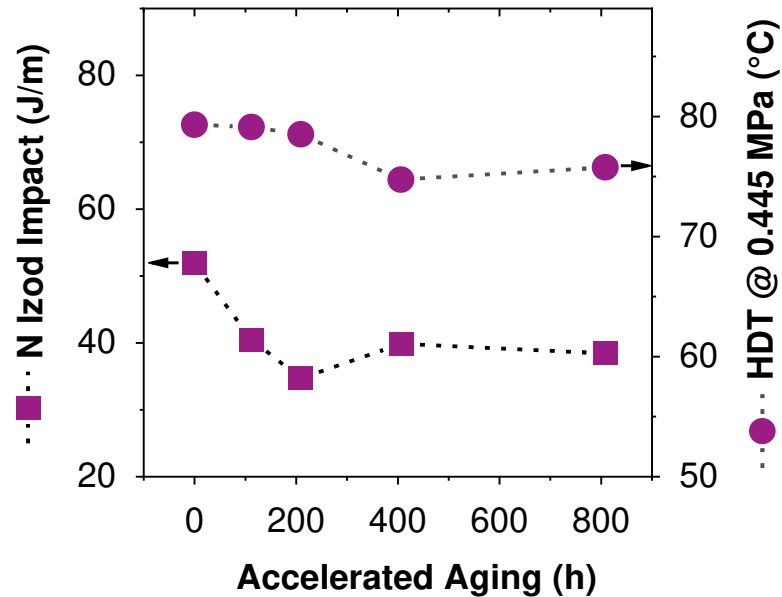
Outdoor weathering
(Q-UV, ASTM G-154)



Benchmark for ABS-like resins
from SLA/DLP systems



Robust combination of
properties



INFINAM – Liquid resin properties

Liquid

Properties	ST 6100 L	TI 3100 L	RG 3101 L
Viscosity (mPa.s)	450	1060	1700
Density (g/cm ³)	1.1	1.1	1.1
Color	Black	Black	Black

Working Curve




Layer thickness (µm)	100	100	100
Layer Exposure Time (s)	5	10	4
Base Layer Exposure Time (s)	10	20	7
Critical Exposure Energy (mJ/cm ²)	4.2	20.5	10
Depth of Penetration (µm)	120	160	180



*DLP 3D Printer. Wavelength 405 nm and Intensity 11 mW/cm². Exposure energy dosage of >50 mJ/cm² per layer is recommended to assure enough green body strength

Workflow INFINAM® ST 6100 L.

Printing and post-processing recommendations

 Material	 Cleaning	 Post-Curing	
		Option 1	Option 2
ST 6100 L	Isopropanol (IPA)	1. 120 min @ 80 °C + UV-light 2. 120 min @ 80 °C (no UV-light)	1. 60 min with UV-light 2. 240 min @ 80 °C thermal oven
TI 3100 L	1. Tripropylene glycol monomethyl ether (TPM) 2. Isopropanol (IPA)	1. 120 min @ 60 °C + UV-light	1. 120 min with UV-light 2. 180 min @ 80 °C thermal oven
RG 3101 L	Isopropanol (IPA)	1. 120 min @ 80 °C + UV-light 2. 180 min @ 80 °C thermal oven	1. 120 min with UV-light 2. 180 min @ 80 °C thermal oven

INFINAM®

Examples

ST 6100 L (GF-Nylon)	TI 3100 L (PP)	RG 3101 L (ABS)
Strength / Thermal Stability	Impact strength / Toughness	Impact strength / Thermal Stability
Housing/assembly Jigs and fixtures Connectors Brackets  Automotive Fuel-Cap	Functional prototypes Movie prop Protectors Snap fit  Sporting Goods	End-use engineering Interior automotive Mobility devices Toys  Drone Frame

