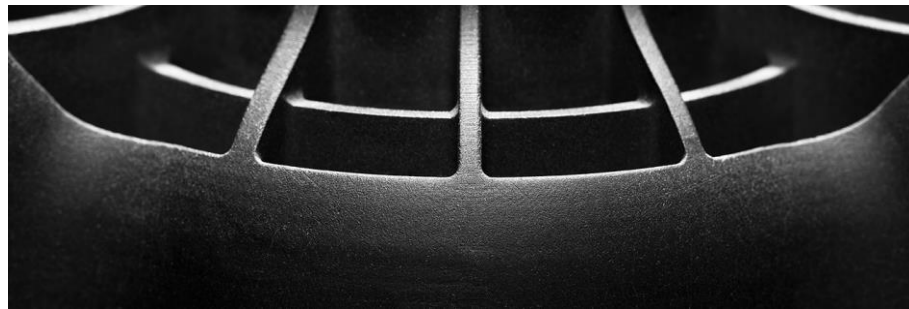


Materials Overview



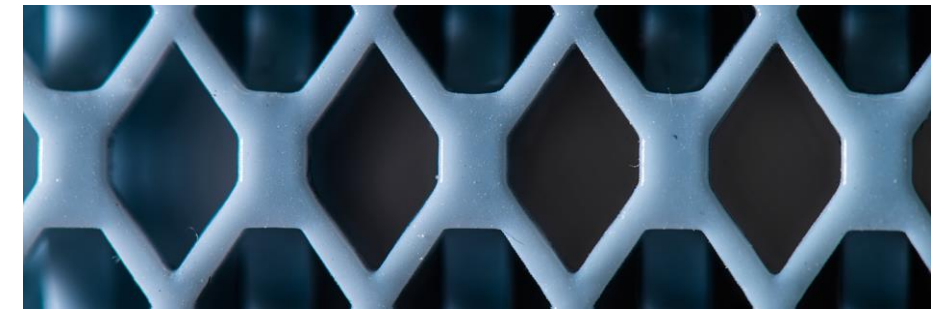
Tough and abrasion resistant, stiff

RPU Rigid Polyurethane



Tough, impact and abrasion resistant with moderate stiffness

FPU Flexible Polyurethane



Highly elastic, resilient

EPU Elastomeric Polyurethane



High temperature resistance, strength, and stiffness

CE Cyanate Ester



General purpose

PR Prototyping Resin

RPU Rigid Polyurethane

Tough and abrasion resistant,
stiff

RPU is our stiffest and most versatile polyurethane-based resin. It performs well under stress, combining strength, stiffness, and toughness. These properties make RPU particularly useful for consumer electronics, automotive, and industrial components, where excellent mechanical properties are needed.

ULTIMATE TENSILE STRENGTH	40 - 55 MPa
ELONGATION AT BREAK	90 - 140%
YOUNG'S MODULUS	1500 - 2000 MPa
HEAT DEFLECTION TEMPERATURE	58 - 70 °C

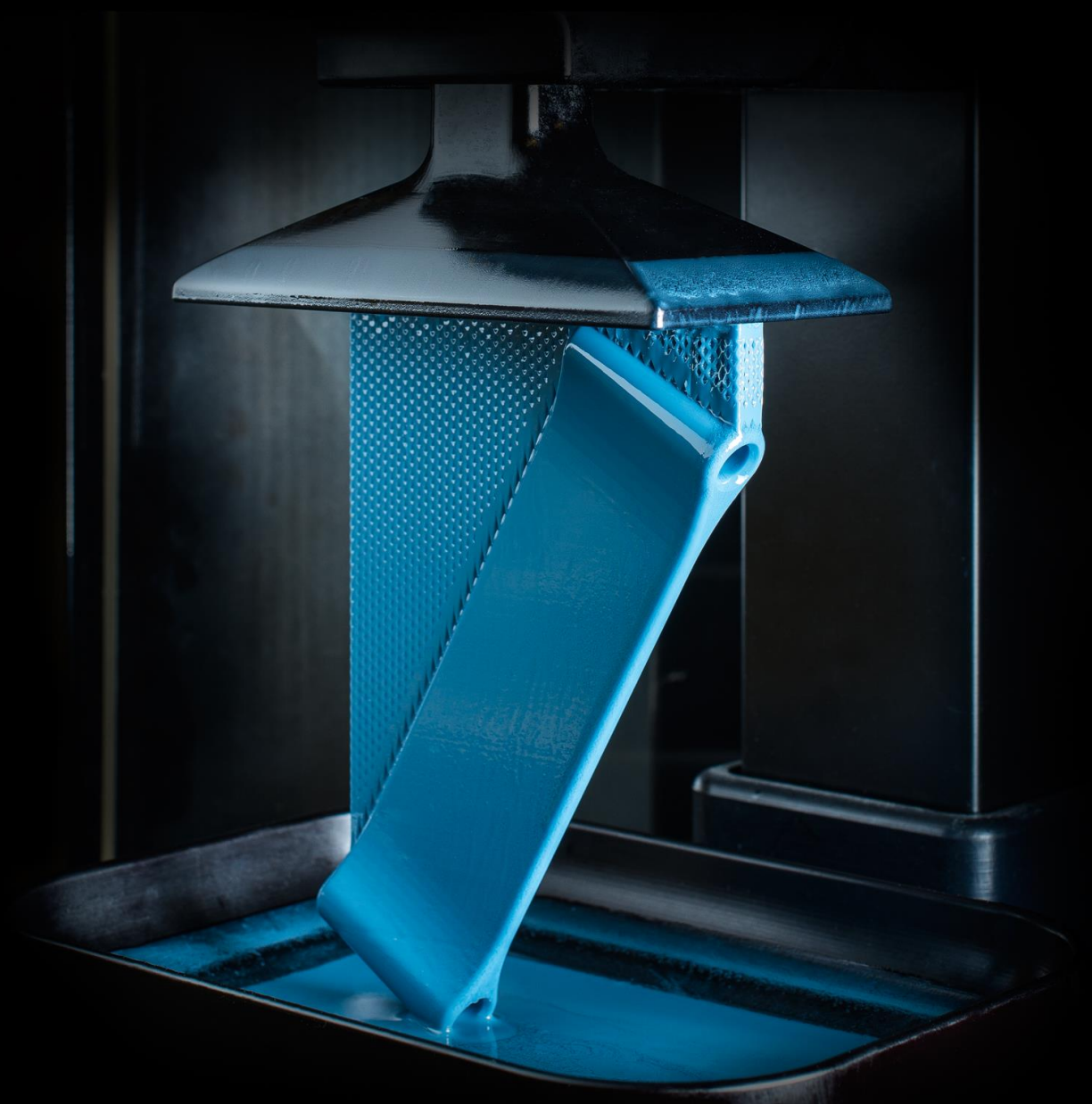


FPU Flexible Polyurethane

Tough, impact and abrasion resistant with moderate stiffness

FPU is a semi-rigid material with good impact, abrasion and fatigue resistance. This versatile material was designed for applications that require the toughness to withstand repetitive stresses such as hinging mechanisms and friction fits.

ULTIMATE TENSILE STRENGTH	23 - 28 MPa
ELONGATION AT BREAK	200 - 250%
YOUNG'S MODULUS	600 - 850 MPa
IMPACT STRENGTH	35 - 39 J/m

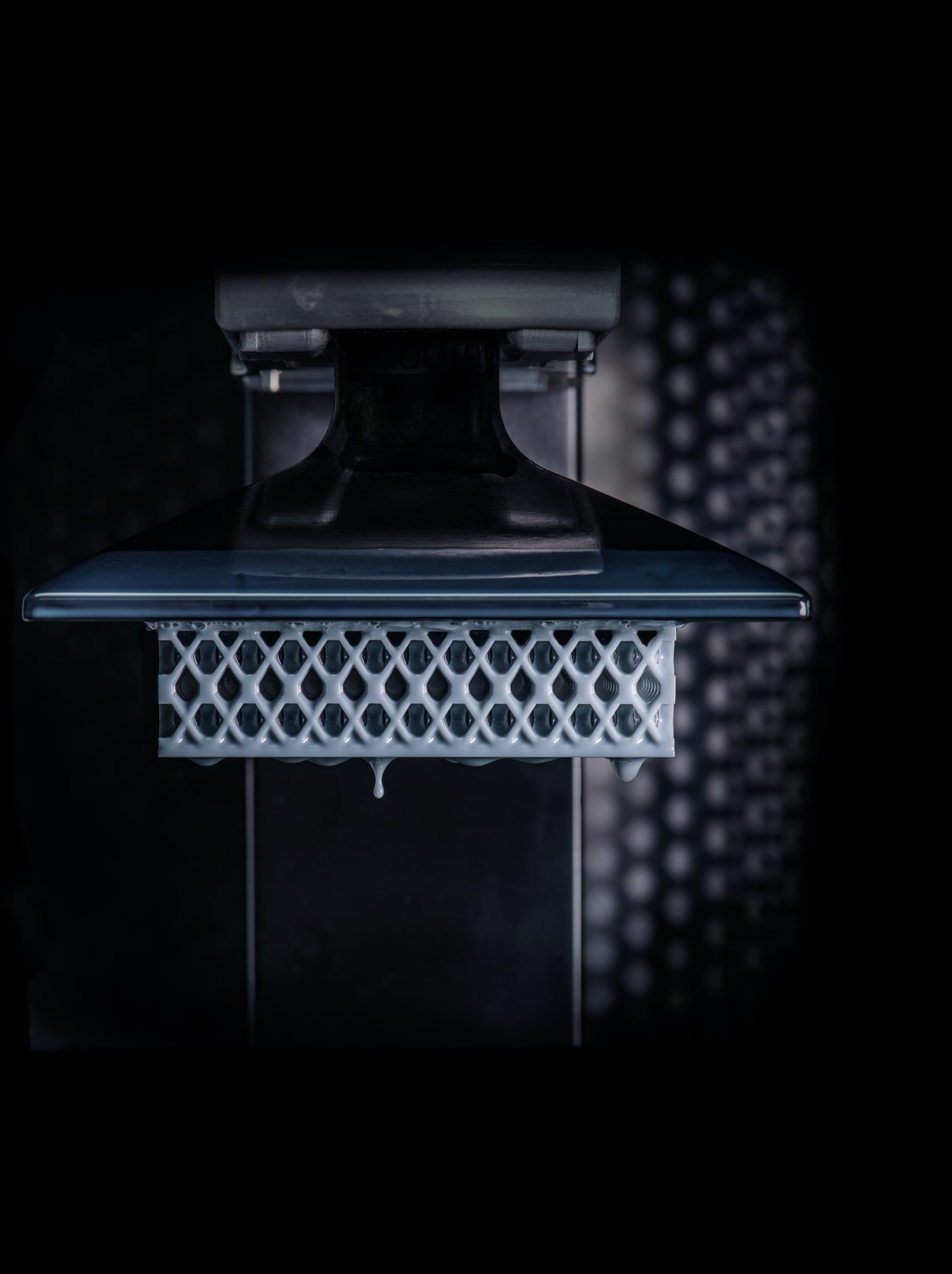


EPU Elastomeric Polyurethane

Highly elastic, resilient

EPU is a high performance polyurethane elastomer. It exhibits excellent elastic behavior under cyclic tensile and compressive loads. EPU is useful for demanding applications where high elasticity, impact and tear resistance are needed such as cushioning, gaskets, and seals.

ULTIMATE TENSILE STRENGTH	5 - 7 MPa
ELONGATION AT BREAK	250 - 300%
YOUNG'S MODULUS	6 - 8 MPa
TEAR STRENGTH	15 - 20 kN/m



CE Cyanate Ester

High temperature resistance, strength, and stiffness

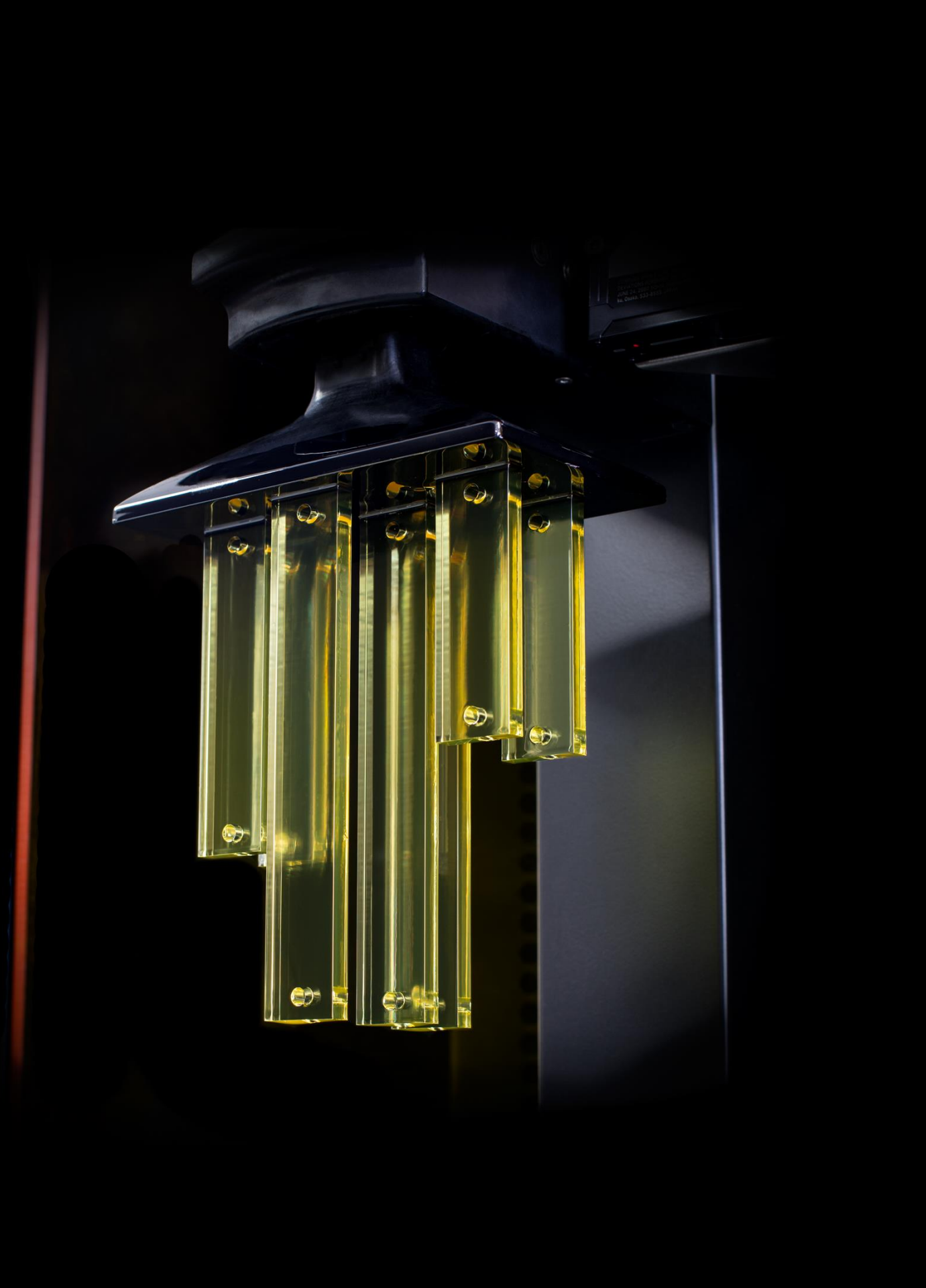
Our Cyanate Ester-based resin is a high performance material with glass transition temperatures up to 225°C [437°F]. Marked by excellent strength, stiffness and long-term thermal stability, CE is useful for under-the-hood applications, electronics, and industrial components.

ULTIMATE TENSILE STRENGTH 90 - 110 MPa

ELONGATION AT BREAK 2.5 - 4.0%

YOUNG'S MODULUS 3800 - 4500 MPa

HEAT DEFLECTION TEMPERATURE 219 °C



PR Prototyping Resin

General Purpose

PR is our prototyping resin with properties similar to SLA resins. It prints quickly, has excellent resolution, and performs well enough to withstand moderate functional testing. It is available in six colors — cyan, magenta, yellow, black, white, and gray. These colors can be mixed to create custom colors.

ULTIMATE TENSILE STRENGTH	26 - 32 MPa
ELONGATION AT BREAK	15 - 28%
YOUNG'S MODULUS	600 - 950 MPa
IMPACT STRENGTH	24 - 28 J/m

