Agilus30™ Colors

Print fully functional,
full color prototypes
with a single 3D print

Full color, full flexibility

Creating full color, rubber-like parts, while setting specific flexibility levels, is often a complex, labor-intensive, time consuming and costly process. This can often lead designers to limit their prototyping requirements. Product designers need a combination of both color flexible and color rigid materials to simulate a real multi-material, full color product. There are now no more limitations around flexible models with the new Agilus30 Colors.

Bicycle Grip Prototypes 3D
Printed with Agilus30 Colors for
the Sporting Goods Industry

Consumer goods.
Vivid colors, flexible, over
molded part. This sample
shows a kitchen spatula
with rigid and flexible
elements.

Ultra-realistic tactile prototypes

Until now, there has been no complete and simple prototyping solution for full color, flexible materials for rubber or silicone textured product prototyping. Traditional processes like Room Temperature Vulanization (RTV) molding or post process painting do not suffice since they are complicated and often require special skills. Wouldn't it be great to be able to simulate different flexibility levels for full color, functional prototypes that represent design intent, not only visually but also physically? This is now a reality with 3 new resins that provide flexible, full color capabilities and full shore level range control, taking you one step further in design realism and ending protype design limitations.

stratasys

Advanced texture simulation

Agilus30 Cyan, Magenta and Yellow have changed the game by answering these critical design needs. They enable advanced texture simulation of the final product at both sketch and prototype stage. Agilus30 Colors allows accurate, flexible, color and texture implementation by simulating real rubber and silicone textures. These new resins allow you to print flexible design products with dedicated color profiles and full shore level control. The introduction of Agilus30 Colors means that you can now achieve a product prototype that represents design intent fully, with flexible full color models.

Control your shore value like a boss

Agilus30 Colors are the latest addition to our portfolio, offering high surface quality, flexible textures and software capabilities that allow full control of your shore value definition. We've also included a unique Support Core Function solution that enables extra softness in all Agilus30 models. Once you have loaded your chosen Agilus30 materials configuration into the printer, you are ready to experience a new level of freedom. Define your desired flexibility levels and get closer than ever before to a realistic final design of your product.

Enhanced materials without compromise

All Agilus30 materials are available are now available for all J7 and J8 series printers. Agilus30™ Cyan (FLX941) Agilus30™ Magenta (FLX951) and Agilus30™ Yellow (FLX931) is available in various cartridge sizes; 3.6Kg (J7 series) and 4Kg (J8 series).

Agilus30 Colors, 3 new resins for flexible, full color models with shore value control for advanced simulation of your final product with no color limitations.
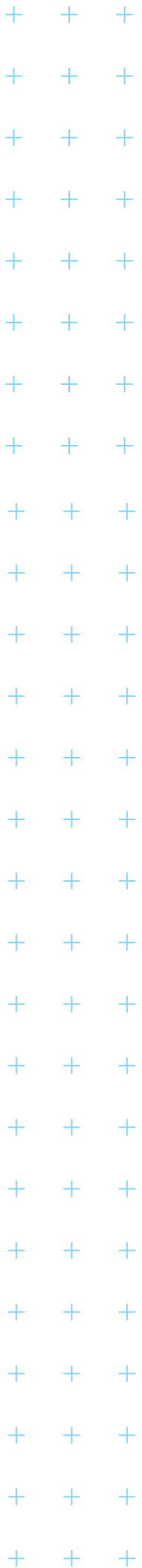
Agilus30

PolyJet Rubberlike Material

Agilus30™ is a superior rubber-like PolyJet™ photopolymer family ideal for advanced design verification and colorful rapid prototyping. Get more durable, tear-resistant prototypes that can stand up to repeated flexing and bending and design validation. With a Shore A value of 30 in all Agilus30 versions you can accurately simulate the precise colorful look, feel and function of rubber-like products. 3D print rubber surrounds,overmolds, soft-touch colorful coatings, living hinges, jigs and fixtures, wearables, consumer goods, grips and seals with surface texture.

Mechanical Properties	Test Method	Value		
		Black / Translucent	White	Cyan/Magenta/Yellow
Tensile Strength	ASTM D-412	2.4 – 3.1 MPa (348 – 450 psi)	2.1-2.6 MPa (305 – 377 psi)	2.2 – 2.6MPa (319-377 psi)
Elongation at Break	ASTM D-412	220 – 270%	185 – 230%	315 - 335%
Compressive Set	ASTM D-395	6 – 7%	6 – 7%	6 – 7%
Tensile Tear Resistance	ASTM D-624	4 – 7 Kg/cm (22 – 39 lb/in)	4 – 7 Kg/cm (22 – 39 lb/in)	4.1-4.4 kg/cm (23-25 lb/in)

Other	Test Method	Value		
		Black / Translucent	White	Cyan/Magenta/Yellow
Shore Hardness	ASTM D-2240	30 – 35 Scale A	30 – 40 Scale A	28-33 Scale A
Polymerized Density	ASTM D-792	1.14 – 1.15 g/cm^3	1.14 – 1.15 g/cm^3	1.14 – 1.15 g/cm^3

System Availability	Layer Thickness Capability	Support Structure	Available Color
Objet260/350/500 Connex1/2/3™	High Speed mode: 30 microns (0.0012 in.)	SUP705 (WaterJet removable) SUP706B (soluble + WaterJet removable)	☐ Translucent
Stratasys J735™/ Stratasys J750™	High Speed mode: 27 microns (0.0011 in.)	SUP705 (WaterJet removable) SUP706B (soluble + WaterJet removable)	■ Black ☐ Translucent ☐ White ■ Cyan ■ Magenta ■ Yellow
J4100™	High Speed mode: 27 microns (0.001 in.)	SUP705 (WaterJet removable)	■ Black ☐ Translucent
J826™ Prime / J835™ Prime / J850™ Prime / J850 Pro	High Quality mode: 14 microns (0.00055 in.) High Mix mode: 27 microns (0.001 in.) High Speed mode: 27 microns (0.0011 in.)	SUP705 (WaterJet removable) SUP706B (soluble + WaterJet removable)	■ Black ☐ Translucent ☐ White ■ Cyan ■ Magenta ■ Yellow