POLYJET

Agilus30

Flexible Rubber-Like Material for Multi-Material Applications

Agilus30 rubber-like material offers superior elongation at break, tear resistance, and tensile strength. Can be blended with rigid materials to create custom shore hardness values from A30-A95 for versatile prototyping applications.



BUILD VOLUME	LEAD TIME	LAYER HEIGHT	TOLERANCE
342 × 342 × 200 mm	2-4 business days	0.03 mm	±0.2% (min ±0.2 mm)

MECHANICAL PROPERTIES

Tensile strength, elongation at break and tear resistance show how far Agilus30 parts stretch before they fail and how well they stop a tear spreading from a cut or notch, which is what lets grips, seals and living hinges withstand repeated flexing and bending. Compressive set shows how much of a squeeze a seal or gasket keeps after the load is removed; a lower value means it springs back closer to its original shape.

The blend rows show the hardest Digital Material made with Rigur. It is much stronger and more tear resistant than base Agilus30 but stretches far less, so choose a blend firm enough to hold its shape and soft enough to flex where the part needs it.

PROPERTY	VALUE	TEST STANDARD
Tensile Strength	**2.4–3.1 MPa**	ASTM D412
Elongation at Break	**220–270 %**	ASTM D412
Compressive Set	**6–7 %**	ASTM D395
Tensile Tear Resistance	**4–7 kg/cm**	ASTM D624
Tensile Strength, Shore A 85–95 Blend (with RGD450)	**9–13 MPa**	ASTM D412
Elongation at Break, Shore A 85–95 Blend (with RGD450)	**50–80 %**	ASTM D412
Tensile Tear Resistance, Shore A 85–95 Blend (with RGD450)	**25–29 kg/cm**	ASTM D624

PHYSICAL PROPERTIES

Shore A hardness is the main way to specify a rubber-like part. Base Agilus30 sits at the soft end of the scale for grips, seals and skin-like surfaces, and Digital Material blends with Rigur step the hardness up for firmer parts.

Density describes the cured material and is the figure to use for part weight estimates.

PROPERTY	VALUE	TEST STANDARD
Shore Hardness A	**30–35**	ASTM D2240
Shore Hardness A, Digital Material Blends (with RGD450)	**40–95**	ASTM D2240
Polymerized Density	**1.14–1.15 g/cm³**	ASTM D792
Color	**Black (Agilus30 Black, FLX985)**	Stratasys data sheet

COMPLIANCE

Stratasys provides REACH-compliant PolyJet material formulations, documentation and labels, so teams can include Agilus30 in supply-chain substance reviews from supplier data.

Stratasys publishes no biocompatibility, food-contact, RoHS or flammability rating for Agilus30, so it suits models and prototypes rather than finished skin-contact medical devices or parts that need a flame rating.

STANDARD	STATUS
REACH (EC 1907/2006) REACH-compliant PolyJet material formulations, documentation and labels	Stratasys statement

MANUFACTURING

Colours & finishes	**Black; support removal, matte or glossy surface finish, and painting for lighter colours**