

E-Rigid PU

Let us print your part!¹



E-Rigid PU is a polyurethane-like resin that 3D prints end-use and prototype parts that compete with injection molded plastics.

Available in black, natural and white, E-Rigid PU is hard and stiff but also maintains good strength, marked by flexibility and impact resistance. With a hardness value similar to the value of a cast urethane plastic, E-Rigid PU is a versatile and tough material.

E-Rigid PU is ideal for end-use and prototype applications that may have previously used ABS, nylon or urethane plastics, such as casings for handheld devices, snap-fit or consumer and sporting goods.

Material Properties ²			
Testing Standard	Description	Black	White
D638	Tensile Strength	20.6 MPa	34 MPa
D638	Tensile Modulus	396 MPa	700 MPa
D638	Elongation at Break	173%	120%
D790	Flexural Strength	21.6 MPa	36 MPa
D790	Flexural Modulus	678 MPa	860 MPa
D256	Izod Impact Notched	43 J/m	47 J/m
D648	HDT at 1.8 MPa (264 psi)	41°C	42°C
D2240	Shore Hardness, D	73	78
	Viscosity at 30°C	375 cP	370 cP

Recommended 3D Printer Family³
 Perfactory, 3SP

¹ Learn more at [EnvisiorteC.com/printmypart](https://envisiorteC.com/printmypart)
² All data provided is preliminary and must be verified by the individual user
³ May not be suitable for all machine models within a 3D printer family. Please refer to specific model online