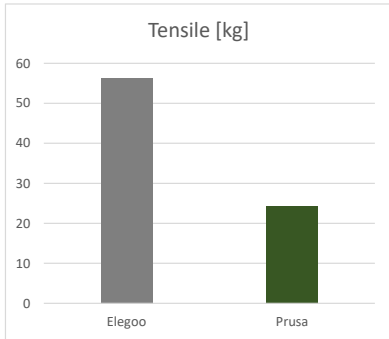


Elegoo water washable vs Prusa Tough resin

Average			
Tensile	test 1	test 2	Tensile [kg]
Elegoo	46.6	66.2	56.4
Prusa	20	28.6	24.3

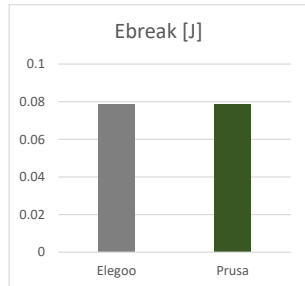


Minimal area: 4x4 mm

Impact test
based on ISO 180 (IZOD test specimen)

Tensile	dist from 0 [mm]	E _{break} [J]
Elegoo	16	0.07848
Prusa	16	0.07848

$E_{br} = m * g * H = 0.5 \text{ kg} * 9.81 \text{ m/s}^2 * H \text{ [m]}$



Test specimen: 80x10x4, notch 2mm deep

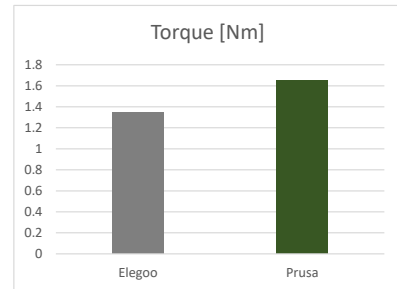
Average			
Shear	test 1	test 2	Shear [kg]
Elegoo	70.4	82.2	76.3
Prusa	68	81.8	74.9



Double shear area
2 x Ø5 mm

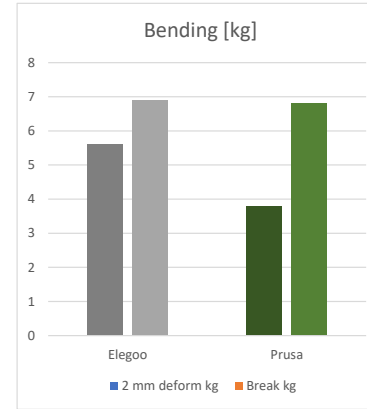
Torque (twist) test

Torque	test 1	test 2	Torque [Nm]	twists
Elegoo	1.3	1.4	1.35	95°
Prusa	1.6	1.7	1.65	65°



Test specimen: D6 mm, 30 mm cylindrical part

Bending	2 mm deform kg	Break kg
Elegoo	5.6	6.9
Prusa	3.8	6.8



*Based is ISO 178
distance between supports: 50 mm
Test specimen 80x10x4 mm

Elegoo water washable vs Prusa Tough resin
MyTechFun, 2021-05-20