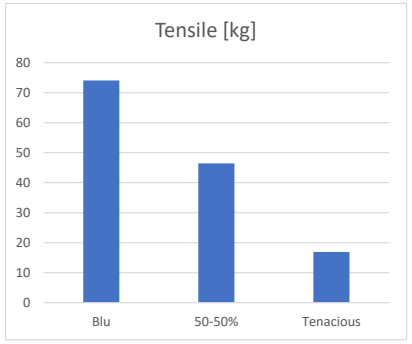
Siraya Resin mix

Tensile	test 1	test 2	Average Tensile [kg]
Blu	76.4	71.8	**74.1**
50-50%	36.4	56.4	**46.4**
Tenacious	15.8	18	**16.9**

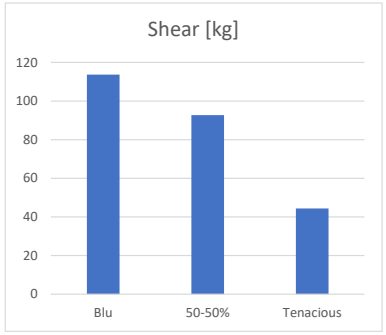
Shear	test 1	test 2	Average Shear [kg]
Blu	107.2	120.2	**113.7**
50-50%	94	91.4	**92.7**
Tenacious	47.6	41.2	**44.4**

Bending	mm deform	Break kg
Blu	4.6	14.2
50-50%	3.15	11.8
Tenacious	0.1	0.1

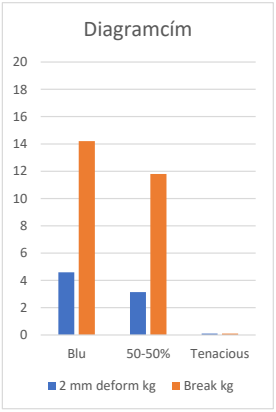
*tenacious didn't broke



Minimal area: 4x4 mm



Double shear area
2 x Ø5 mm



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

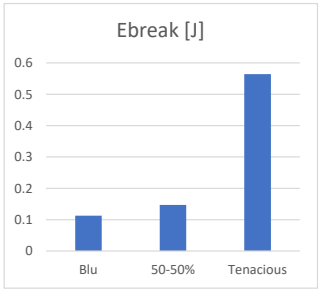
Impact test

Impact test	dist from 0 [mm]	E_{break} [J]
Blu	23	0.112815
50-50%	30	0.14715
Tenacious	115	0.564075

E br = m * g * H = 0.5 kg * 9.81 m/s2 * H [m]

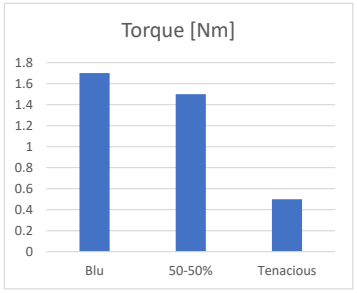
Torque (twist) test

Torque	test 1	test 2	orque [Nm	twists
Blu	1.8	1.6	**1.7**	360°
50-50%	1.5	1.5	**1.5**	360°
Tenacious	0.5	0.5	**0.5**	720°



Test specimen: 80x10x4, notch 2mm deep

based on ISO 180 (IZOD test specimen)



Test specimen: D6 mm, 30 mm length of cylindrical part

Siraya resin
MyTechFun, 2021-06-05