

e-Sun resin:

|                 | Average |        |                     |
|-----------------|---------|--------|---------------------|
| <b>Tensile</b>  | test 1  | test 2 | <b>Tensile [kg]</b> |
| <b>Standard</b> | 129.2   | 127.8  | <b>128.5</b>        |
| <b>Tough</b>    | 137.8   | 114.2  | <b>126</b>          |

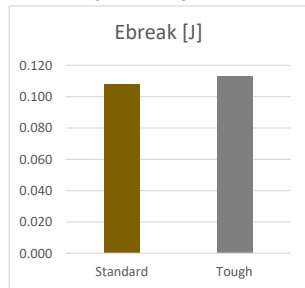


Minimal area: 4x4 mm

Impact test  
based on ISO 180 (IZOD test specimen)

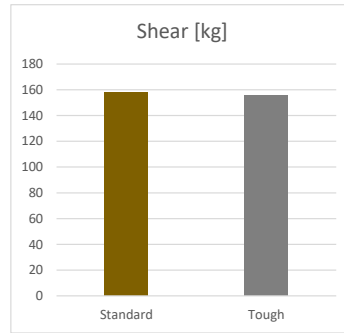
| Tensile         | dist from 0 [mm] | E <sub>break</sub> [J] |
|-----------------|------------------|------------------------|
| <b>Standard</b> | 22               | 0.108                  |
| <b>Tough</b>    | 23               | 0.113                  |

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



Test specimen: 80x10x4, notch 2mm deep, ISO 180

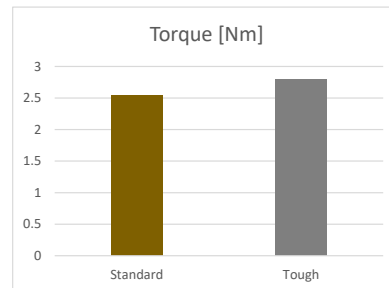
|                 | Average |        |                   |
|-----------------|---------|--------|-------------------|
| <b>Shear</b>    | test 1  | test 2 | <b>Shear [kg]</b> |
| <b>Standard</b> | 161     | 155.8  | <b>158.4</b>      |
| <b>Tough</b>    | 149.6   | 161.6  | <b>155.6</b>      |



Double shear area  
2 x Ø5 mm

Torque (twist) test

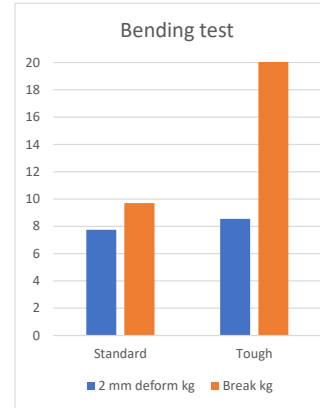
| Torque          | test 1 | test 2 | Torque [Nm] | twists |
|-----------------|--------|--------|-------------|--------|
| <b>Standard</b> | 2.6    | 2.5    | <b>2.55</b> | 180°   |
| <b>Tough</b>    | 2.8    | 2.8    | <b>2.8</b>  | 80°    |



Test specimen: D6 mm, 30 mm cylindrical part

|                 | 2 mm deform kg | Break kg |
|-----------------|----------------|----------|
| <b>Bending</b>  |                |          |
| <b>Standard</b> | 7.75           | 9.7      |
| <b>Tough</b>    | 8.55           | 22.05    |

<=average numbers



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

eSUN RESIN TEST  
MyTechFun, 2021-05-29