

## **Durable and impact resistant**

The specific qualities of the filament Spectrum Smart ABS include a high impact resistance and relatively high rigidity. As compared to the classic ABS filament, the “smart” variant demonstrates improved processing parameters which considerably reduce the difficulties which accompany the additive manufacturing using the standard ABS. It is essentially the lower shrinkage and reduced emission of irritant volatiles during processing. An unquestionable advantage is that the material retains its properties at temperatures down to -40°C.

### **Key features:**

- high impact resistance and rigidity while retaining a relatively high dimensional accuracy
- high gloss of external surface
- reduced warping ratio (0.5-0.7%)
- temperature resistance (HDT 85°C)
- good interlayer adhesion, especially using 3D printer with heated chamber
- low water absorption
- easy post-processing (grinding, drilling, sawing)

### **Applications:**

- manufacturing of all kinds of enclosures, guards, protectors and other similar items subject to impacts
- possibility of mechanical treatments allows to produce items to facilitate and help conduct installations, i.e. handles, rules, gauges
- end-use parts
- industrial design
- tooling
- custom components

### **Filament specification:**

Filament diameter: 1.75mm ± 0.05mm / 2.85mm ± 0.05mm

Density: 1.05 g/cm<sup>3</sup>

Nozzle temperature: 230-255°C

Bed temperature: 100°C

Printing speed: 40-100mm/s

Verify your spool option: YES