

**PRODUCT NAME:** 3D FILAMENT PET-G CarbonLook 1,75mm

**PRODUCT DESCRIPTION:** PET-G CarbonLook filament is a poly(ethylene terephthalate) with addition of glycol and carbon fiber in the form of a thread, designed for 3D printing using the FFF/FDM method. Filament coiled on spools, vacuum-packed with desiccant in a PET/PE bag, and then in a box.

**STORAGE:** Store in dry area. Store in a closed container.

## PRODUCT PARAMETERS

| Parameter                                                        | Value      |
|------------------------------------------------------------------|------------|
| Filament diameter [mm]                                           | 1,75       |
| Diameter tolerance [mm]                                          | +/- 0,05   |
| Oval tolerance [mm]                                              | +/- 0,02   |
| Net weight [g]                                                   | 500        |
| Weight with packaging [g]                                        | 900        |
| Spool weight [g]                                                 | 245        |
| Small spool dimensions [mm]<br>( $\phi$ / height / hole $\phi$ ) | 200/55/52  |
| Box dimensions [mm]                                              | 218/209/62 |

## RECOMMENDED PRINTING PARAMETERS

| Parameter              | Value   |
|------------------------|---------|
| Print temperature [°C] | 225-250 |
| Bed temperature [°C]   | 50-80   |

## PHYSICAL PARAMETERS OF THE MATERIAL

| Parameter                 | Value | Unit              | Test method |
|---------------------------|-------|-------------------|-------------|
| Density                   | 1,29  | g/cm <sup>3</sup> | -           |
| Tensile modulus           | 3515  | MPa               | ISO 527-2   |
| Tensile strength at break | 44    | MPa               | ISO 527-2   |

|                                |     |                   |         |
|--------------------------------|-----|-------------------|---------|
| Izod impact strength (notched) | 4,6 | kJ/m <sup>2</sup> | ISO 180 |
| Heat distortion temperature    | 77  | °C                | ISO 306 |

The values above have been measured using standard test specimens made of non-colored material at room temperature. The figures should be considered as indicative values only. Actual properties of PET-G CarbonLook parts can be affected by the printing parameters, design of the model, ambient conditions, application of the printout etc. It is essential that users test our products to determine whether they are suitable for their intended use. ROSA PLAST Sp. z o.o. accepts no liability for any health detriment or material losses or any other losses related to the use of the material.

