

Supplementary

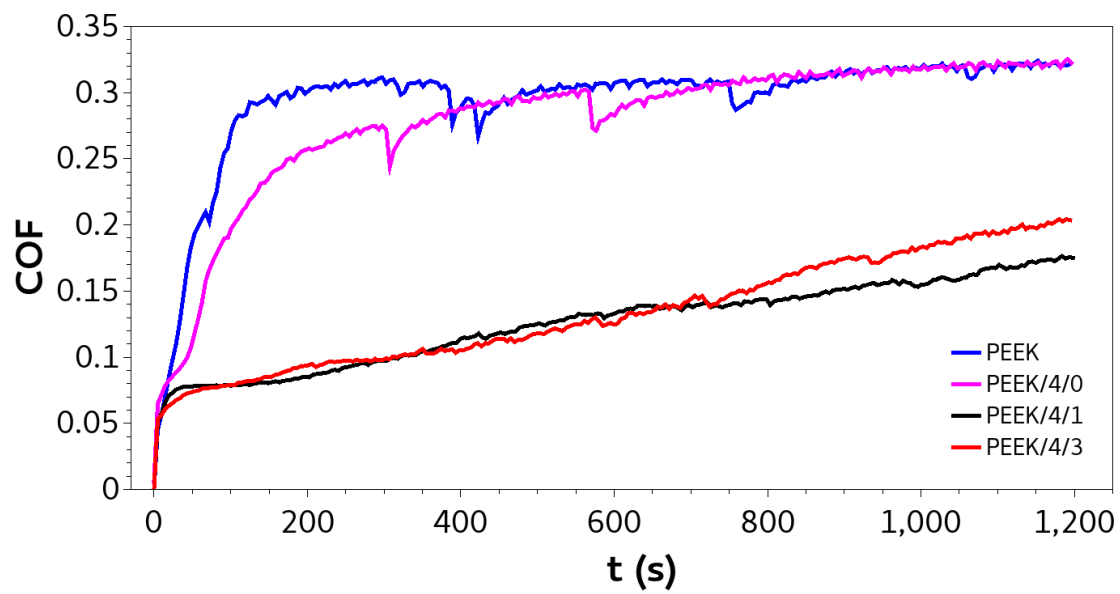


Figure S1

Conductive 3D Printing PEEK Filament

| Physical Properties | Value | Unit | Standard |
|-------------------------------------|-----------------|-------------------|----------------------|
| Specific gravity | 1,31 | g/cm ³ | ISO 1183 |
| Melt flow rate (360 °C / 10 kg) | 2 | g/10 min | ASTM D1238 |
| Mechanical Properties | Value | Unit | Standard |
| Tensile Modulus | 1,60 ± 0,07 | GPa | ASTM D2256 |
| Tensile Strength | 92 ± 1 | MPa | |
| Tensile Elongation at Break | 53 ± 8 | % | |
| Thermal Properties | Value | Unit | Standard |
| Melting Temperature | 343 | °C | ISO 11357 |
| Electrical Properties | Value | Unit | Standard |
| Volume Conductivity (23 °C) | 7 | S/m | Internal test method |
| Loss Tangent (23 °C / 1 MHz) | 2,5 | n/a | |
| Dielectric Constant (23 °C / 1 kHz) | 10 ⁶ | n/a | |
| | Value | Unit | |
| Diameter | 1,75 | mm | |