

## Product: igumid P190-PF 3D-printed

23.03.2022

### General Properties:

density:	1.25 g/cm <sup>3</sup>
colour:	black
saturation with moisture absorption at 23°C / 50% r. h.:	n.d.
saturation with water:	3.7 weight %

### Mechanical Properties:

flexural modulus:	6,3 <sup>4)</sup> / 11,5 <sup>5)</sup> / 2,8 <sup>6)</sup> GPa
flexural strength:	163 <sup>4)</sup> / 237 <sup>5)</sup> / 70 <sup>6)</sup> MPa
max. permissible surface pressure at 20 °C:	n.d.
Shore D hardness:	83

### Thermal Properties:

highest long term service temperature <sup>1)</sup> :	120 °C
highest short term service temperature <sup>1), 2)</sup> :	140 °C
highest short term ambient temperature <sup>1), 2)</sup> :	150 °C
lowest service temperature:	-40 °C

### Electrical Properties: <sup>3)</sup>

specific volume resistivity:	> 10 <sup>10</sup> Ωm
surface resistivity:	> 10 <sup>10</sup> Ω

- 1) relaxation possible
- 2) without additional load; no movement
- 3) depending on 3D printer and printing parameters
- 4) printed flat, print lines oriented 45°/-45°
- 5) printed flat, print lines oriented for optimum strength
- 6) printed upright

The information on this Product Data Sheet is based on our current knowledge of the specified product. None of the information comprises one or more guarantees on certain properties.