

## Technical data

### General Material Properties

Measurement	Condition	Value
Average grain size	Laser diffraction	56
Bulk Density	DIN 53466	0,445-0,460g/cm <sup>3</sup>
Density of laser-sintered part	EOS-method	0,9-0,95g/cm <sup>3</sup>

### Mechanical Properties

Measurement	Condition	Value
	DIN EN ISO	
Tensile Modulus	527	1700±150N/mm <sup>2</sup>
Tensile Strength	527	47±3N/mm <sup>2</sup>
Elongation@Break	527	15±5%
Flexural Modulus	178	1240±130N/mm <sup>2</sup>
Impact Strength(Charpy)	179	53±3.8kJm <sup>2</sup>
Notched Impact Strength(Charpy)	179	4.8±3.4kJm <sup>2</sup>
Izod Impact-Strength	180	32.8±3.4kJm <sup>2</sup>
Izod-Notched Impact Strength	180	4.4±0.4kJm <sup>2</sup>
Ball indentation Hardness	2039	77.6±2kJm <sup>2</sup>
Shore D Hardness	DIN 53505	75±2kJm <sup>2</sup>

### Thermal Properties

Measurement	Condition	Value
Melting Point	DIN 53736	172-180 °c
Vicat Softening Temperature B/50	DIN EN ISO 306	163 °c
Vicat Softening Temperature A/50	DIN EN ISO 306	181 °c

## Applications

PrimePart® is suitable for the rapid and cost-effective manufacture of models, functional prototypes and end products. This is as well as spare parts that have a balanced relationship between mechanical strength and elasticity over a wide temperature range.