SOLIDCONCEPTS

FINE POLYAMIDE PA 2200 EOSINT P

Typical applications of the material are fully functional prototypes with high end finish right from the process. They easily withstand high mechanical and thermal load.

MATERIAL PROPERTIES

Average grain size	Laser diffraction	60	µm
Bulk Density	DIN 53466	0,435-0,445	g/cm³
Density of laser sintered part	EOS Method	0,9-0,95	g/cm³

MECHANICAL PROPERTIES*

Tensile Modulus	DIN EN ISO 527	1700 ± 150	N/mm²
Tensile Strength	DIN EN ISO 527	45 ± 3	N/mm²
Elongation at break	DIN EN ISO 527	20 ± 5	%
Flexural Modulus	DIN EN ISO 178	1240 ± 130	N/mm²
Charpy – Impact Strength	DIN EN ISO 179	53 ± 3,8	kJ/m²
Charpy – Notched imp. Strength	DIN EN ISO 179	4,8 ± 0,3	kJ/m²
Izod – Impact strength	DIN EN ISO 180	32,8 ± 3,4	kJ/m²
Izol – Notched impact strength	DIN EN ISO 180	4,4 ± 0,4	kJ/m²
Ball indentation hardness	DIN EN ISO 2039	77,6 ± 2	
Shore D hardness	DIN 53505	75 ± 2	

THERMAL PROPERTIES

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

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