

# Zamak 5

## Material datasheet Zamak 5

### general properties

properties	unit	value
density laser-melted	g/cm <sup>3</sup>	6,2 – 6,4
roughness after sandblasting (Ra/Rz)	µm	4– 6 / 25 – 35
precision	mm	+/- 0,7 %, min. 0,1 mm
minimal wall thickness	mm	0,6



### mechanical properties

properties	state	unit	value
tensile strength	„as built“	MPa	218 ± 40
yield strength (Rp 0,2%)	„as built“	MPa	185 ± 15
elongation at break	„as built“	%	1,5 ± 0,5
elastic modulus	„as built“	GPa	28 ± 3



### thermal properties

properties	unit	value
thermal conductivity	W/(m*K)	85
specific heat capacity	J/kg*K	389



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