

Glass-filled Fine Polyamide PA 3200

GF for EOSINT P

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MODELS | PROTOTYPES

Technical data

General Material Properties

Measurement	Condition	Value
Average grain size	Laser diffraction	60
Bulk Density	DIN 53466	0,59-0,62g/cm ³
Density of laser-sintered part	EOS-method	1,23-1,28g/cm ³

Mechanical Properties

Measurement	Condition	Value
	DIN EN ISO	
Tensile Modulus	527	3200±200N/mm ²
Tensile Strength	527	48±3N/mm ²
Elongation@Break	527	6±3%
Flexural Modulus	178	2100±150N/mm ²
Impact Strength(Charpy)	179	35±6kJm ²
Notched Impact Strength(Charpy)	179	5.4±0.6kJm ²
Izod Impact-Strength	180	21.3±1.7kJm ²
Izod-Notched Impact Strength	180	4.2±0.3kJm ²
Ball indentation Hardness	2039	98kJm ²
Shore D Hardness	DIN 53505	80±2kJm ²

Thermal Properties

Measurement	Condition	Value
Melting Point	DIN 53736	172-180 °c
Vicat Softening Temperature B/50	DIN EN ISO 306	166 °c
Vicat Softening Temperature A/50	DIN EN ISO 306	179 °c

Applications

Typical applications of the material are housings and thermally stressed parts.