



ADDITIVE 3D
3D PRINTING

Impression 3D - Modélisation 3D - Numérisation 3D



PA 3200 GF - EOS GmbH - Electro Optical Systems

SOURCE : www.eos.info

Parts made of PA 3200 GF have excellent mechanical properties, very smooth surfaces and high accuracy. Typical applications of the material are housings and thermally stressed parts.

3D Data	Test Standard	Value	Unit
Tensile Modulus	ISO 527	3200	MPa
Tensile Strength	ISO 527	51	MPa
Elongation at break	ISO 527	9	%
Elongation at break	ASTM D638	9	%
Flexural modulus	EN ISO 178	2900	MPa
	ASTM D790	421	ksi
Flexural strength	EN ISO 178	73	MPa
	ASTM D790	10588	psi
Charpy			
Impact strength	EN ISO 179	35	kJ/m ²
Notched impact strength	EN ISO 179	5.4	kJ/m ²
Izod			
Impact strength	EN ISO 180	21.3	kJ/m ²
Notched impact strength	EN ISO 180	4.2	kJ/m ²
Ball indentation hardness	EN ISO 2039	98	N/mm ²
Hardness Shore D	ISO 868	80	
	ASTM D2240	80	

The mechanical properties depend on the x-, y-, z-position and on the exposure parameters used.

3D Data	Test Standard	Value	Unit
<u>Thermal properties</u>			
Melting point	EN ISO 11357-1	172 - 180	°C
Heat deflection temp	ASTM D648	350	°F
Vicat softening temp B/50	EN ISO 306	166	°C
	ASTM D1525	331	°F
Vicat softening temp A/50	EN ISO 306	179	°C
	ASTM D1525	354	°F

The data are based on our latest knowledge and are subject to changes without notice. They do not guarantee properties for a particular part and in a particular application.