

PA 2200

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

Technical data

General material properties	Test Method	Value	
Average grain size	ISO 13320-11 Laser diffraction	56 2.20	µm mil
Bulk density	EN ISO 60	0.45	g/cm ³
Density of laser-sintered	-----	0.93 58	g/cm ³ lb/ft ³

Mechanical properties	Test Method	Value	
Tensile modulus	EN ISO 527 ASTM D638	1700 247	MPa ksi
Tensile strength	EN ISO 527 ASTM D638	48 6962	MPa ps
Elongation at break Elongation at break	EN ISO 527 ASTM D638	24 24	% %
Flexural modulus	EN ISO 178 ASTM D790	1500 217	MPa ksi
Flexural strength	EN ISO 178 ASTM D790	58 8412	MPa psi
Charpy - Impact strength	EN ISO 179	53	kJ/m ²
Charpy - Notched impact strenght	EN ISO 179	4.8	kJ/m ²
Izod – Impact strength	EN ISO 180	32.8	kJ/m ²
Izod – Notched impact strength	EN ISO 180	4.4	kJ/m ²
Ball indentation hardness	EN ISO 2039	78	N/mm ²
Shore D - hardness	ISO 868 ASTM D2240	75 75	- -

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

Thermal properties	Test Method	Value	
Melting point	EN ISO 11357-1	172 - 180	°C
Vicat softening temperature B/50	EN ISO 306	163	°C
	ASTM D1525	325	°F
Vicat softening temperature A/50	EN ISO 306	181	°C
	ASTM D1525	358	°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.