

Product Texts

- is in compliance with FDA, 21 CFR, §177.1500 9(b) except for alcoholic foodstuff, apart from that PA 2201 and PA 2200 have identical material properties
- high strength and stiffness
- excellent long-term constant behaviour
- high selectivity and detail resolution
- various finishing possibilities (e.g. metallisation, stove enamelling, vibratory grinding, tub colouring, bonding, powder coating, flocking)

Typical applications of the material are fully functional plastic parts of highest quality. Due to the excellent mechanical properties the material is often used to substitute typical injection moulding plastics. The biocompatibility allows its use e.g. for prostheses, the high abrasion resistance allows e.g. the realisation of movable part connections.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1700	MPa	ISO 527-1/-2
Tensile Strength	48	MPa	ISO 527-1/-2
Strain at break	24	%	ISO 527-1/-2
Charpy impact strength (+23°C)	53	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4.8	kJ/m ²	ISO 179/1eA
Flexural Modulus, 23°C	1500	MPa	ISO 178
Izod Impact notched, 23°C	4.4	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	176	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	163	°C	ISO 306

Other properties	Value	Unit	Test Standard
ISO Data			
Density	930	kg/m ³	ISO 1183

Mechanical properties (TPE)	Value	Unit	Test Standard
ISO Data			
Shore D hardness (15s)	75	-	ISO 868

Characteristic

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Processing

Laser Sintering

Delivery form

White

Chemical Resistance

Chemical Resistance

Ecological valuation

Food approval FDA 21 CFR