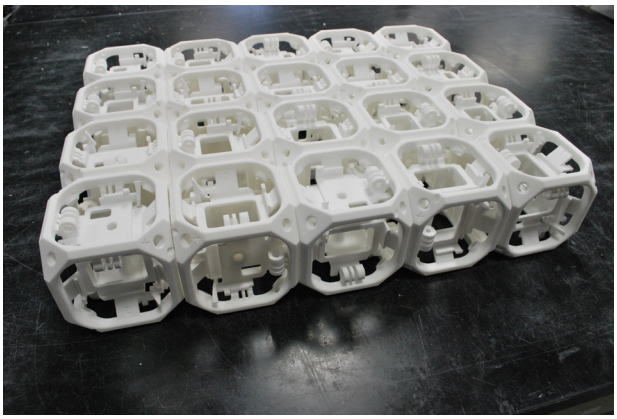
Polyamide - PA 2200

A robust multipurpose material, PA 2200 is a nylon powder with excellent long term stability and high chemical resistance. High strength, stiffness, and detail resolution, combined with a variety of finishing options allow for fully functional parts in prototyping or production applications.



Mechanical Properties

Property Description	Test Standard	Metric	English
Tensile Modulus	ISO 527-1/-2	1620 MPa	239,000 psi
Tensile Strength	ISO 527-1/-2	48 MPa	6,960 psi
Strain at Break	ISO 527-1/-2	18%	
Flexural Modulus (23°C)	ISO 178	1,500 MPa	218,000 psi
Izod Impact Notched (23°C)	ISO 180/1A	4.4 kJ/m^2	2.09 ftlb/in^2
Shore D Hardness (15s)	ISO 868	75	

Directional Analysis

Property Description	Test Standard	Metric	English
Tensile Modulus	ISO 527-1/-2		
X Direction		1650 MPa	239,000 psi
Y Direction		1650 MPa	239,000 psi
Z Direction		1650 MPa	239,000 psi
Tensile Strength	ISO 527-1/-2		
X Direction		48 MPa	6960 psi
Y Direction		48 MPa	6960 psi
Z Direction		48 MPa	6090 psi
Strain at Break	ISO 527-1/-2		
X Direction		18 %	
Y Direction		18 %	
Z Direction		4 %	
Charpy impact strength (+23°C)	ISO 179/1eU	53 kJ/m^2	25.2 ftlb/in^2
Charpy notched impact strength (+23°C)	ISO 179/1eA	4.8 kJ/m^2	2.28 ftlb/in^2

Thermal Properties

Property Description	Test Standard	Metric	English
Melting temperature (20°C/min)	ISO 11357-1/-3	176 °C	349 °F
Vicat softening temperature (50°C/h 50N)	ISO 306	163 °C	325 °F
Density (laser sintered)	EOS Method	930 kg/m^3	58.06 lb/ft^3

- Bio compatible according to EN ISO 10993-1 and USP/level VI/121 °C
- Approved for food contact in compliance with the EU Plastics Directive 2002/72/EC (exception: high alcoholic foodstuff)
- Information provided by Electro Optical Systems