

MATERIAL SPECIFICATIONS:

HP 3D High Reusability PA 12 White

PA 12 W is a durable material that provides high impact and temperature resistance while remaining stable under a range of environmental conditions. The material's high strength and low coefficient of friction makes it ideal for functional parts and prototypes including prosthetics, medical equipment, fashion and wearables, household appliances, gears, and bearings.



PA 12 W: Ideal for economical white, engineering-grade, quality functional parts with superior powder reusability

HP 3D HR PA12 W	Value (xy)	Value (z)	Method
Tensile strength (MPa)	49 MPa	45 MPa	ASTM D638
Tensile modulus (MPa)	1900 MPa	1850 MPa	
Elongation at yield	11%	8%	
Elongation at break	17%	9%	
Impact strength	4.5 kJ/m ²	4.4 kJ/m ²	ASTM D256
Density	1.02 g/cm ³ 0.037 lb/in ³		ASTM D792
Powder Melting Point (DSC)	188°C 370°F		DIN EN ISO 11357
Particle Size (D50)	57µm		DIN EN ISO 8130/13
Bulk Density of Powder	0.435 g/cm ³ 0.015 lb/in ³		ISO 60

Strong, Functional, Complex Parts

Robust thermoplastic produces high-density parts with balanced property profiles and strong structures.

Quality White Parts

Optimize cost and quality with white functional parts, optimal mechanical properties, and consistent performance while achieving up to 75% surplus powder reusability.

Engineered for HP Multi Jet Fusion

Designed for production of white functional parts and prototypes with fine detail and dimensional accuracy across a variety of industries.



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