

3D HR PA12

Technical specifications¹

Category	Measurement	Value	Method
General Properties	Powder melting point (DSC)	187 °C/369 °F	ASTM D3418
	Particle size	60 µm	ASTM 03451
	Bulk density of powder	0.425 g/cm ³	ASTM D1895
	Density of parts	1.01 g/cm ³	ASTM D792
Mechanical Properties	Tensile Strength, Max Load ⁵ - XY	48 MPa/6960 psi	ASTM D638
	Tensile Strength, Max Load ⁵ - Z	48 MPa/6960 psi	ASTM D638
	Tensile Modulus ⁵ - XY	1700 MPa/245 ksi	ASTM D638
	Tensile Modulus ⁵ - Z	1800 MPa/260 ksi	ASTM D638
	Elongation at Break ⁵ - XY	20%	ASTM D638
	Elongation at Break ⁵ - Z	15%	ASTM D638
Thermal Properties	Heat Deflection Temperature (@ 0.45 MPa) - Z	175 °C/350 °F	ASTM D648
	Heat Deflection Temperature (@ 1.82 MPa) - Z	95 °C/205 °F	ASTM D648

1. The following technical information should be considered representative of averages or typical values and should not be used for specification purposes.