

Novamid® ID 1070

PA copolymer

3D printing grade

Print Date: 2019-09-18

The mechanical data is tested on printed tensile bars, printed in two directions: 0°-90° and 45°-45°

Properties	Typical Data	Unit	Test Method
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	54 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	104 / *	°C	ISO 75-1/-2
Other properties			
	dry / cond		
Water absorption	12 / *	%	Sim. to ISO 62
Humidity absorption	3.5 / *	%	Sim. to ISO 62
Density	1120 / -	kg/m ³	ISO 1183
Material specific properties			
	Value		
Maximum tensile stress (3D printed tensile bars) 0°-90°	45	MPa	ISO 527-1/-2
Maximum tensile stress (3D printed tensile bars) 45°-45°	50	MPa	ISO 527-1/-2
Tensile modulus (3D printed tensile bars) 0°-90°	1710	MPa	ISO 527-1/-2
Tensile modulus (3D printed tensile bars) 45°-45°	2120	MPa	ISO 527-1/-2
Elongation at break (3D printed tensile bars) 0°-90°	7.2	%	ISO 527-1/-2
Elongation at break (3D printed tensile bars) 45°-45°	15	%	ISO 527-1/-2