

## Novamid® ID 1030

PA6/66

3D printing grade

Print Date: 2019-10-25

Properties	Typical Data	Unit	Test Method
<b>Mechanical Properties (Injection Molded)</b>			
	dry / cond		
Tensile modulus	2330 / 440	MPa	ISO 527-1/-2
Yield stress	71.5 / 31	MPa	ISO 527-1/-2
Yield strain	4.5 / 24	%	ISO 527-1/-2
Stress at break	41.5 / 45.5	MPa	ISO 527-1/-2
Strain at break	>50 / >50	%	ISO 527-1/-2
Flexural modulus	2370 / 470	MPa	ISO 178
Flexural strength	94.5 / 23	MPa	ISO 178
Charpy impact strength (+23°C)	N / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	N / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	4.3 / 173	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	3.2 / 3	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
	dry / cond		
Melting temperature (10°C/min)	200 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	51 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	84 / *	°C	ISO 75-1/-2
<b>Other properties</b>			
	dry / cond		
Water absorption	13 / *	%	Sim. to ISO 62
Humidity absorption	3.8 / *	%	Sim. to ISO 62
Density	1110 / -	kg/m <sup>3</sup>	ISO 1183

## Material specific properties

Value

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Novamid<sup>®</sup> ID 1030

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Properties	Typical Data	Unit	Test Method
Maximum tensile stress (3D printed tensile bars) 45°-45°	37	MPa	ISO 527-1/-2
Tensile modulus (3D printed tensile bars) 45°-45°	860	MPa	ISO 527-1/-2
Elongation at break (3D printed tensile bars) 45°-45°	110	%	ISO 527-1/-2

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