

# Novamid® ID 1030-CF10

## PA6/66

3D printing grade, 10% Carbon Reinforced

Print Date: 2020-02-19



Upper figure: Flat X-X Direction

Lower figure: Flat Y-X Direction

Properties	Typical Data	Unit	Test Method
<b>Mechanical Properties (Injection Molded)</b>			
	dry / cond		
Tensile modulus	7570 / -	MPa	ISO 527-1/-2
Yield stress	110 / -	MPa	ISO 527-1/-2
Yield strain	2.8 / -	%	ISO 527-1/-2
Stress at break	110 / -	MPa	ISO 527-1/-2
Strain at break	3 / -	%	ISO 527-1/-2
<b>Mechanical properties</b>			
	Value		
Tensile modulus (3D printed: flat X-X direction)	7630	MPa	ISO 527-1/-2
Stress at yield (3D printed: flat X-X direction)	110	MPa	ISO 527-1/-2
Strain at yield (3D printed: flat X-X direction)	2.5	%	ISO 527-1/-2
Stress at break (3D printed: flat X-X direction)	110	MPa	ISO 527-1/-2
Strain at break (3D printed: flat X-X direction)	2.2	%	ISO 527-1/-2
Tensile modulus (3D printed: flat Y-X direction)	2720	MPa	ISO 527-1/-2
Stress at yield (3D printed: flat Y-X direction)	63	MPa	ISO 527-1/-2
Strain at yield (3D printed: flat Y-X direction)	3	%	ISO 527-1/-2
Stress at break (3D printed: flat Y-X direction)	58	MPa	ISO 527-1/-2

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Properties	Typical Data	Unit	Test Method
Strain at break (3D printed: flat Y-X direction)	4.5	%	ISO 527-1/-2
<b>Thermal properties</b>		dry / cond	
Melting temperature (10°C/min)	200 / *	°C	ISO 11357-1/-3
Glass transition temperature (10°C/min)	58 / *	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	153 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	184 / *	°C	ISO 75-1/-2
<b>Other properties</b>		dry / cond	
Density	1170 / -	kg/m <sup>3</sup>	ISO 1183

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