

Novamid ID 1070

PA copolymer

3D printing

To: Nexeo

Print Date: 2016-03-16

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			
Melting temperature (10° C/min)	220	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion (parallel)	0.9	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1	E-4/°C	ISO 11359-1/-2
Other properties			
Water absorption	9.5	%	Sim. to ISO 62
Humidity absorption	2.5	%	Sim. to ISO 62
Density	1130	kg/m ³	ISO 1183
Material specific properties			
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
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
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

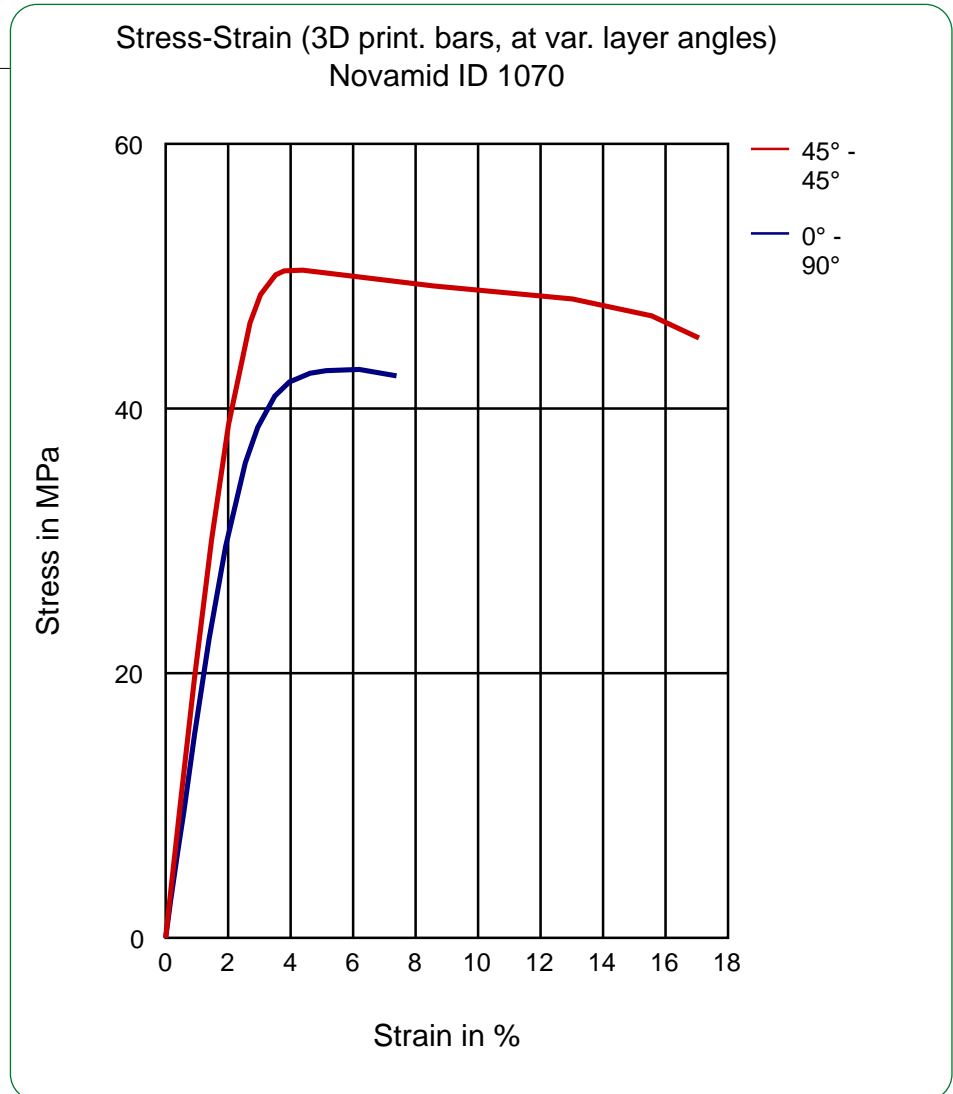
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Stress-Strain (3D print. bars, at var. layer angles)



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