

Novamid® ID 1070

PA copolymer

3D printing

To: Nexeo solutions 3D

Print Date: 2016-09-07

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
Thermal Index 500 hrs	113	°C	IEC 60216/ISO 527-1/-2
Thermal Index 1000 hrs	102	°C	IEC 60216/ISO 527-1/-2
Thermal Index 2500 hrs	87	°C	IEC 60216/ISO 527-1/-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

All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications.

