NOVAMID® ID1070

ENGINEERING MATERIAL FOR APPLICATIONS UNDER HARSH CONDITIONS

Material

PA6

Key Benefits & Properties

- Engineered material optimized for ductility & stiffness
- Parts with high inter-layer strength durable parts with good mechanical properties
- Unique DSM co-polyamide technology
- High temperature resistant material up to 150°C
- Suitable for harsh environments

Colours	Diameters	
	2.85	1.75
Black	Yes	Yes
White	Yes	Yes

ENGINEERING THERMOPLASTIC FOR END USE PARTS

Chemical Resistance

Type	Chemical	
hc-halo	Chloramines	-
halo	Chlorine water	-
hc-halo	Chlorobenzene	+
hc-halo	chlorobenzene	+
hc-halo	chloroform	-
acid	chlorosulfonic acid	-
acid	chromic acid	-

TRANSPORTATION

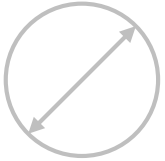
Air intake manifold classic mini

FOR BEST RESULTS

- Tested on multiple open platform FFF machines
- Machine needs to be calibrated for temperature to ensure printing at correct conditions
- During production breaks longer than a few minutes, purge nozzle adequately
- Leave the printed part in air in ambient conditions for atleast 4 hours post printing

Nozzle temperature:± 250 - 270° C
Bed temperature: ± 100 - 120° C

Average speed: 50mm/s



Nozzle diameter: ≥ 0.25mm

Nozzle material: Hardened steel

Polyamides tend to stick to brass nozzles, hence hardened nozzles are recommended

FOR BEST RESULTS

Enclosed Printer	✓
Heated Build Chamber	✓

Recommendations

Print Surface	Adhesion Promoters	Support materials
		
PEI Sheet	Magigoo PA	Breakaway

FOR BEST RESULTS

PRE-PREP PRINTING:

- Prior to printing extrude atleast 15mm of new filament through nozzle
- Wipe the print platform with Ethanol/IPA before printing
- Dry overnight at 90°C
- Under 21°C & 50% RH, the filament is good to print continuously for max 3 days.

- The material tends to wear down nozzles over a period of time due to its abrasive nature

- **Food Contact/Medical Use**
  Unless specifically mentioned in technical literature pertaining to the product, this product has not been tested for compatibility with food contact or medical use and is therefore not recommended for such use. DSM makes no guarantees as to the suitability of this material for any given application and expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. It is the sole responsibility of the user to assess the suitability of this product for their intended application(s).

- **Ventilation**
  Do not use in enclosed spaces or in areas with poor ventilation. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Since DSM has no control over how this product may ultimately be used, all liability is expressly disclaimed and DSM assumes no obligation or liability whatsoever

DATA SHEETS & MSDS

All technical information & MSDS for Novamid® ID1070 is available at:

Novamid® ID1070

CONTACT & ORDER

Order via our distribution partners

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Contact: additive.manufacturing@dsm.com