

Nylamid[®] 5113-02 HS

TECHNICAL DATASHEET

TDS Ref # 797 Reviewed: 3/26/2014

DESCRIPTION

• Nylamid 5113-02 HS is a heat stabilized, 13% glass fiber-reinforced nylon 6/6 molding resin offering the good strength properties expected from glass filled materials.

PROPERTIES	TEST METHOD	UNIT	VALUE
MECHANICAL PROPERTIES			
Flexural Modulus	D790	psi (MPa)	608,000 (4,190)
Notched Izod @ 23°C	D256	ftlb/in (J/m)	0.7 (38)
Tensile Strength	D638	psi (MPa)	15,600 (108)
THERMAL PROPERTIES			
Melt Point	D3418	°F (°C)	504 (262)

NOTES

- Testing conducted on dry-as-molded specimens at 73°F
- Preliminary properties listed above.

PROCESSING CONSIDERATIONS: PA 6/6 GLASS REINFORCED < 15%

°F (°C)	Rear Zone	500-560 (260-293)	Melt Temperature: Nylene PA6/6 melts at 490 °F (254°C), actual melt temperatures of 540-600 (282-316°C) are permissible, depending on residence time and shot size.
	Center Zone	530-570 (277-299)	Mold Temperature: 120-200 °F (49-93°C), highly filled grades require 180-200 °F (82-93°C) to obtain the best overall surface appearance, higher temperatures will increase crystallinity.
	Front Zone	540-590 (282-310)	Residence Time: should not exceed 6 minutes if possible, less with higher melt temperatures.
	Nozzel	535-585 (279-307)	Shot Size: should be between 25-75% of barrel capacity.
	Melt Temp.	550-600 (287-316)	Fill Rate: fast fill rates are suggested for best surface appearance.
PRESSURE	Injection	5-15,000	Regrind Level: typically no more than 25% is recommended, with higher levels possible for unfilled grades depending on the end use requirements. Make certain regrind is properly dried to virgin moisture levels.
	Hold	4-12,000	Drying Temperature: 150-180 °F (65-182°C) (for 2-4 hours, Nylene PA6/6 should be dried to less than 0.20% moisture for optimum performance. Drying longer than 4 hours or at higher temperatures may cause oxidation of the polymer or remove essential volatiles.
	Back	0-50	

CHARACTERISTICS

Resin Type: Nylon 6/6
 Product Characteristics:
 Unreinforced, Heat Stabilized

INJECTION MOLDING PROCESSING

Economy Grade

MARKETS USED

- Automotive Applications
- General Applications
- Electrical Applications
- Industrial Applications

APPLICATIONS

- Air Intake Manifolds
- Bobbins & Coils
- Bracket
- Electrical Connector
- Housing

DISCLAIMER

The data set forth herein has been carefully compiled by Nylene in our laboratories. Values shown are typical properties and not specifications. Since processing variables will affect properties, the reproducibility of our data in a customer's testing facility is not guaranteed. There is no warranty of any kind, either expressed or implied, applicable to the use of this information, and the user assumes all risk and liability in connection therewith.



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